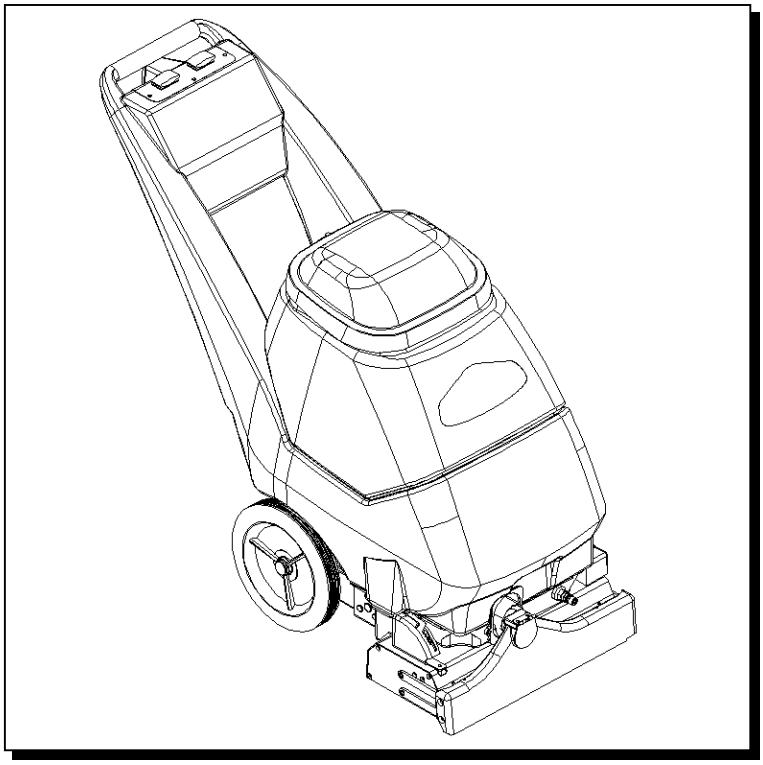
CADET™

WINDSOR®

CARPET EXTRACTOR



Operating Instructions

MODEL: CDT7

QUEST® . . . for Continuous Improvement.
Windsor's Quality Management System is Certified ISO 9001.

c UL® us

Read these instructions before operating the machine

MM

98626 07/28/05

MACHINE DATA LOG/OVERVIEW

MODEL _____

DATE OF PURCHASE _____

SERIAL NUMBER _____

SALES REPRESENTATIVE # _____

DEALER NAME _____

OPERATIONS GUIDE NUMBER _____

PUBLISHED _____

YOUR DEALER

Name: _____

Address: _____

Phone Number: _____

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HOW TO USE THIS MANUAL

This manual contains the following sections:

- HOW TO USE THIS MANUAL
- SAFETY
- OPERATIONS
- MAINTENANCE
- PARTS LIST

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

MODEL _____

DATE OF PURCHASE _____

SERIAL NUMBER _____

SALES REPRESENTATIVE # _____

DEALER NAME _____

OPERATIONS GUIDE NUMBER _____

PUBLISHED _____

The model and serial number of your machine is on the bottom back-end of the machine.

The SAFETY section contains important information regarding hazard or unsafe practices of the machine. Levels of hazards is identified that could result in product or personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Periodic
- Daily/Regular
- Troubleshooting

The PARTS LIST section contains assembled parts illustrations and corresponding parts list. The parts lists include a number of columns of information:

- **REF –** column refers to the reference number on the parts illustration.
- **PART NO.** – column lists the part number for the part.
- **QTY** – column lists the quantity of the part used in that area of the machine.
- **DESCRIPTION** – column is a brief description of the part.
- **SERIAL NO. FROM** – column indicates the first machine the part number is applicable to. When the machine design has changed, this column will indicate serial number of applicable machine. The main illustration shows the most current design of the machine. The boxed illustrations show older designs. If column has an asterisk (*), call manufacturer for serial number.

- **NOTES** – column for information not noted by the other columns.

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

NOTE: The 98# on the lower left corner of the front cover is the part number for this manual.

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precaution must always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.
This machine is for commercial use.

⚠ WARNING: To reduce the risk of fire, electric shock, or injury:

Connect to a **properly grounded outlet**. See Grounding Instructions.

Do not leave the machine unattended. Unplug machine from outlet when not in use and before maintenance or service.

Use only indoors. Do not use outdoors or expose to rain.

Do not allow machine to be used as a toy. **Close attention** is necessary when used by or near children.

Use only as described in this manual. Use only manufacturer's recommended components and attachments.

Do not use damaged electrical cord or plug. Follow all instructions in this manual concerning grounding the machine. If the machine is **not working properly**, has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized service center.

Do not pull or carry machine by electrical cord, use as a handle, close a door on cord, or pull cord around sharp edges or corners.

Do not run machine over cord. **Keep** cord away from heated surfaces.

Do not unplug machine by pulling on cord. To unplug, grasp the electrical plug, not the electrical cord.

Do not handle the electrical plug or machine with wet hands.

Do not operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.

This machine is intended for cleaning carpet only.

Do not vacuum anything that is burning or smoking, such as cigarettes, matches, or hot ashes.

This machine is not suitable for picking up health endangering dust.

Turn off all controls before unplugging.

Machine can cause a fire when operating near flammable vapors or materials. Do not operate this machine near flammable fluids, dust or vapors.

This machine is suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices for more than normal housekeeping purposes.

Maintenance and repairs must be done by qualified personnel.

If foam or liquid comes out of machine, switch off immediately.

SAVE THESE INSTRUCTIONS

HAZARD INTENSITY LEVEL

The following symbols are used throughout this guide as indicated in their descriptions:

HAZARD INTENSITY LEVEL

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and ***FOR SAFETY.*** The level of hazard intensity is determined by the following definitions:

⚠ WARNING

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

⚠ CAUTION

CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To Identify actions which must be followed for safe operation of equipment.

Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition. Following is information that signals some potentially dangerous conditions to the operator or the equipment. Read this information carefully. Know when these conditions can exist. Locate all safety devices on the machine. Please take the necessary steps to train the machine operating personnel.

FOR SAFETY:

DO NOT OPERATE MACHINE:
Unless Trained and Authorized.
Unless Operation Guide is Read and understood.
In Flammable or Explosive areas.
In areas with possible falling objects.

WHEN SERVICING MACHINE:

Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine. Use manufacturer approved replacement parts.

THIS PRODUCT IS FOR COMMERCIAL USE ONLY.

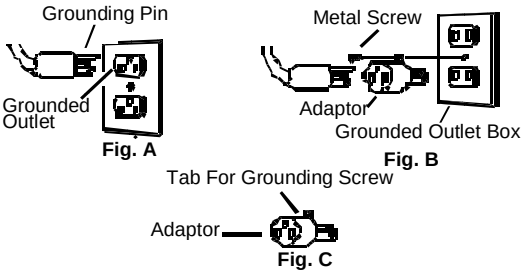
ELECTRICAL:
In the USA this machine operates on a standard 15 amp 115V, 60 hz, A.C. power circuit . The amp, hertz, and voltage are listed on the data label found on each machine. Using voltages above or below those indicated on the data label will cause serious damage to the motors.

GROUNDING INSTRUCTIONS:
This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.
This appliance is for use on a nominal 115-volt circuit, and has a grounded plug that
looks like the plug in “Fig. A”. A temporary adaptor that looks like the adaptor in “Fig . C” may be used to connect this plug to a 2-pole receptacle as shown in “Fig. B”, if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.

⚠ WARNING:

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

PROPER GROUNDING



NOTE: In Canada, the use of a temporary adaptor is not permitted by the Canadian Electrical Code

TECHNICAL SPECIFICATIONS

POWER TYPE

ELECTRICAL: 115 V, 15 A, 60 HZ

ELECTRIC VACUUM MOTOR: (1) –3 stage, 1 hp, 99 cfm (2.80 cubic meters/min.) Waterlift –117" (297cm)

BRUSH: (1) 15" (38.1 cm.)

SOLUTION PUMP: 73 PSI, diaphragm style, internal bypass

SOLUTION CAPACITY: 7 gallons (26.5ltr)

RECOVERY CAPACITY: 7 gallons (26.5ltr)

BRUSH SPEED: 1000 rpm

GENERAL DIMENSIONS/WEIGHT

Vacuum shoe: 17" (43.18 cm) cast aluminum with spring loaded down pressure

WHEELS: (2) 10" dia. (25 cm) wheels by 2"

WEIGHT: 92lbs. (42kg)

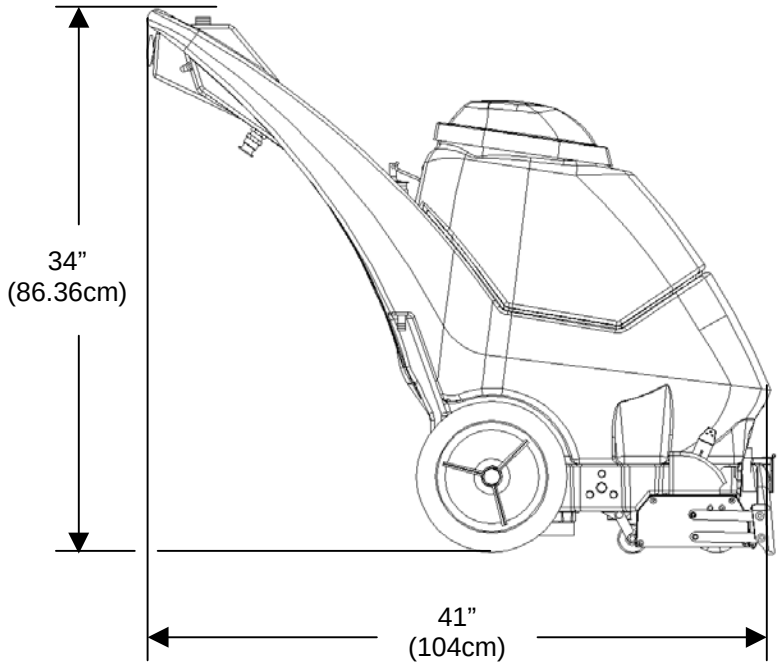
LENGTH: 41" (104 cm)

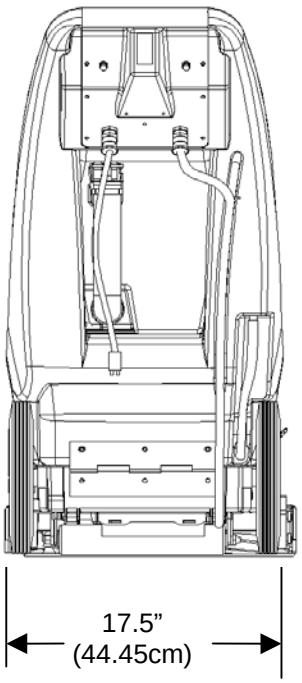
HEIGHT: 34" (86.36 cm)

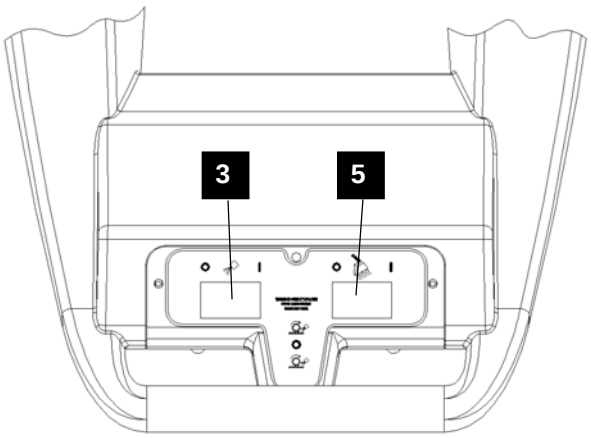
WIDTH: 17.5" (44.45 cm)

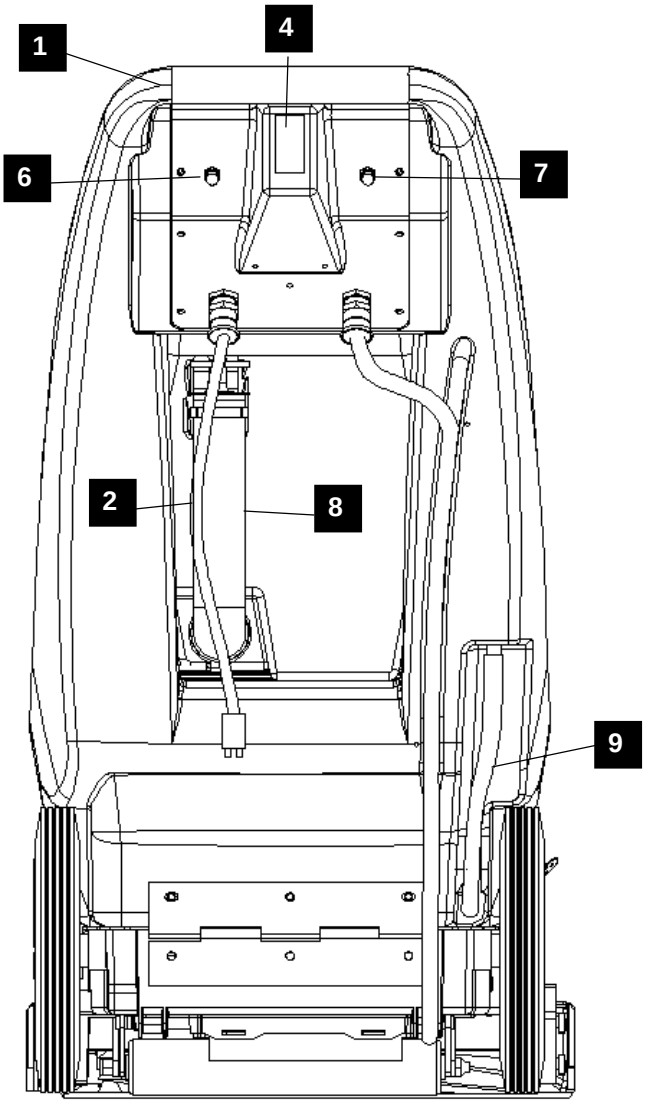
SOLUTION SPRAY: 2 quick change jets.

POWER CABLE: 50' (12.7 m) (14 gauge)









1. **Main Handle.** Used to pull and maneuver machine.

2. **Electrical Cord.**

3. **Pump Switch.** Turns on pump and enables spray.

4. **Brush/Spray switch.** Turns on brush motor and activates electro-valve to dispense solution to floor through jets. Intermittent, off, and continuous settings.

5. **Vacuum Motor Switch.** Turns on vacuum motor

6. **Brush Motor Circuit Breaker.** 6 amp. Breaker protecting brush motor.

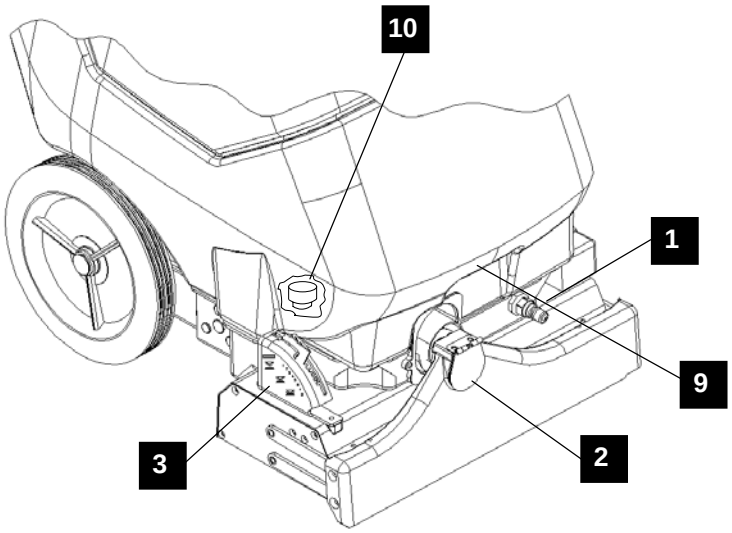
7. **Vacuum Motor Circuit Breaker.** 15 amp. Breaker protecting vacuum motor.

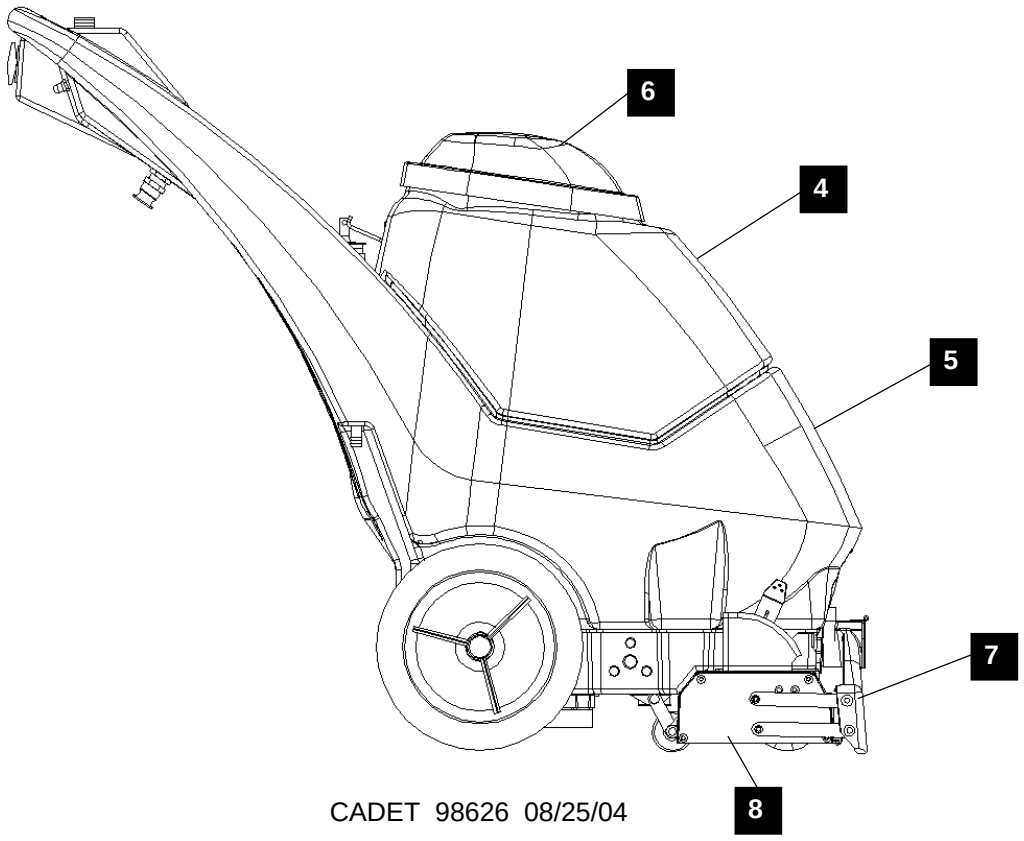
8. **Recovery Dump Hose.** Facilitates draining dirty cleaning solution.

9. **Solution Dump Hose.** Facilitates draining excess cleaning solution from solution tank.

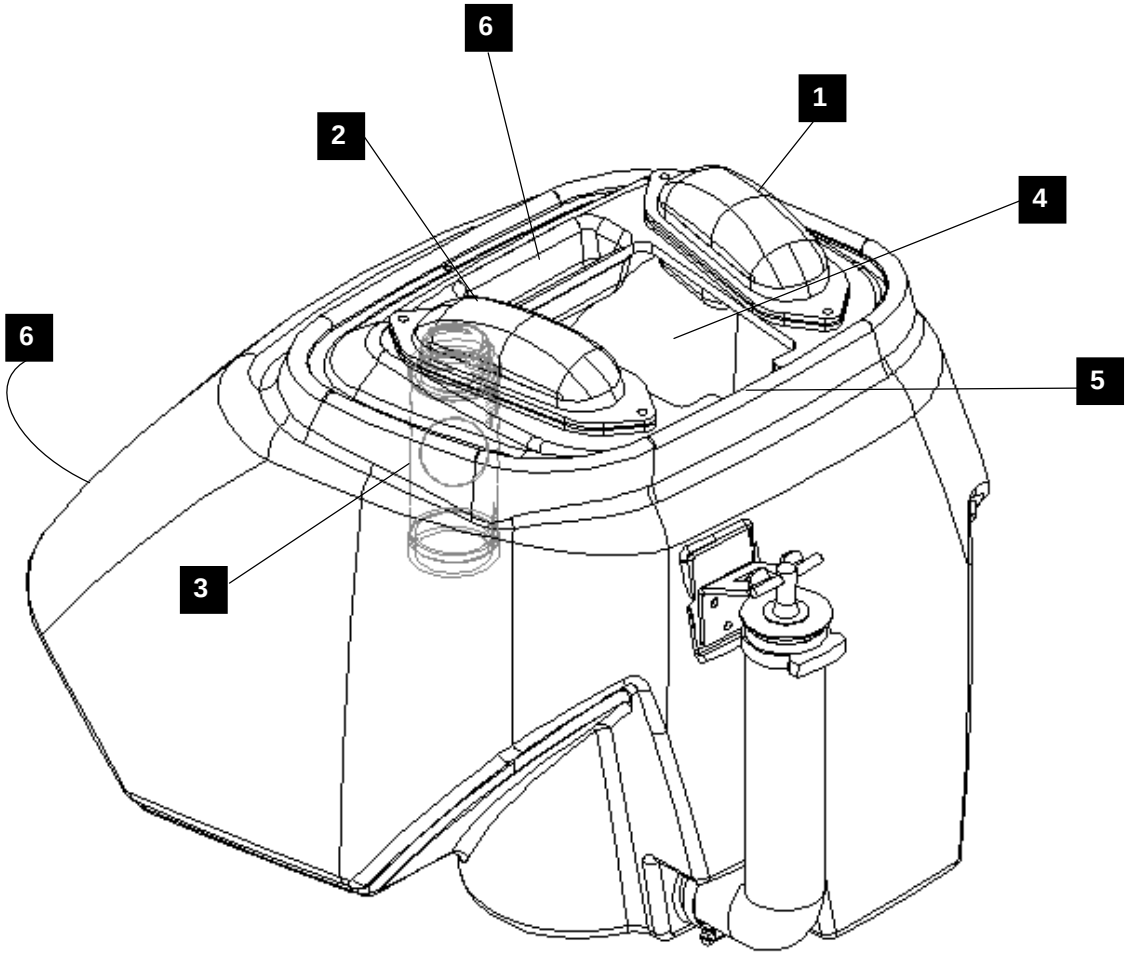
CONTROLS/COMPONENT LOCATIONS

1. **Solution Accessory Tool Hookup.** Used for various auxiliary cleaning tools.
2. **Vacuum Hose Door.** Used to connect various auxiliary 1 ½ inch cleaning tool vacuum hoses.
3. **Brush Height Adjustment.** Used to regulate brush height from storage position to various carpet heights.
4. **Recovery Tank.** Used to collect dirty cleaning solution.
5. **Solution Tank.** Used to hold cleaning solution.
6. **Recovery Tank Dome.**
7. **Vacuum Shoe.**
8. **Brush Housing.**
9. **Front Lifting Handle.**
10. **Cleaning Solution Filter.**

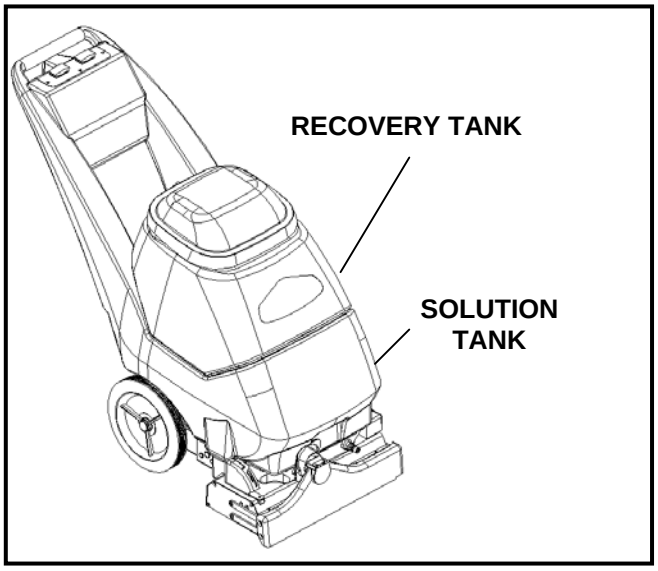


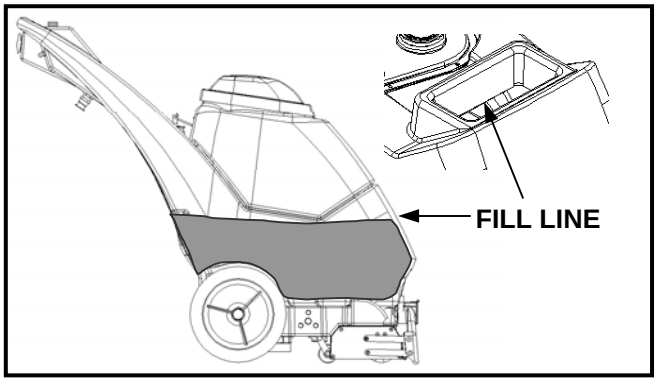


1. Solution Intake Cover.
2. Vacuum Intake Cover.
3. Float Shut-Off.
4. Clean-Out Opening.
5. Pour Spout.
6. Lift Handle.



FILLING OPERATIONS





FILLING THE CADET

NOTE: Use clean bucket of water to fill solution tank

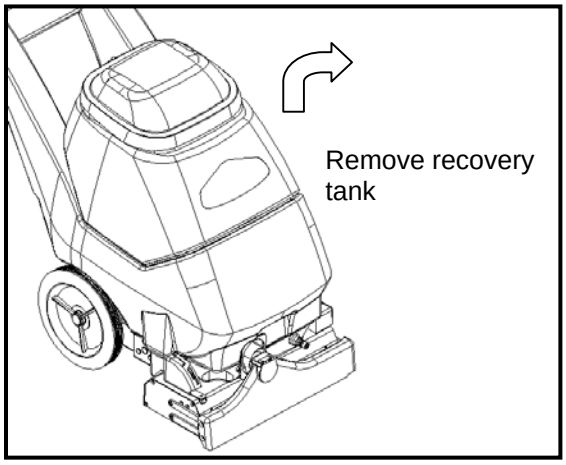
Do not put defoamer, solvents, spotter or prespray chemicals in the solution tank.

Do not allow water to spill into vacuum motor inlet. Dry spillage from top of solution tank before replacing recovery tank.

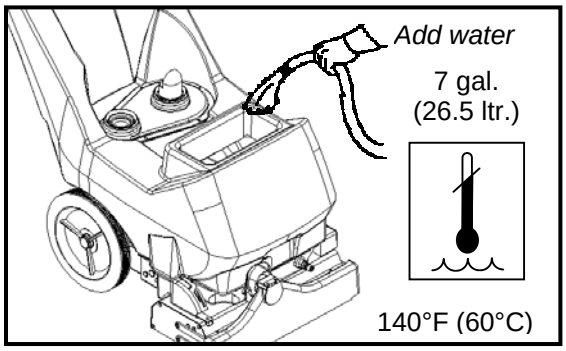
CHEMICALS

Suitable Chemicals	Non-Compatible Chemicals
Alkalis	*Aldehydes*
Detergents	*Aromatic Hydrocarbons*
Hydroxides	*SP Butyls*
Soaps	*Carbon Tetrachloride*
Vinegar	*Clorox**
	Chlorinated Bleaches
	Chlorinated Hydrocarbons
	*Lysol**
	Methyl Ethel Ketone (MEK)
	Perchorethylene (perc)
	Phenolics
	Trichlorethylene
	D-Limonene

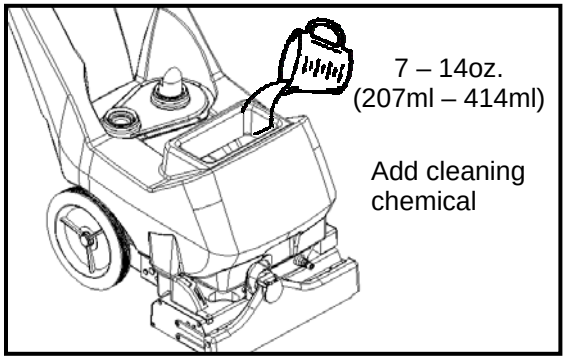
STEP **1**



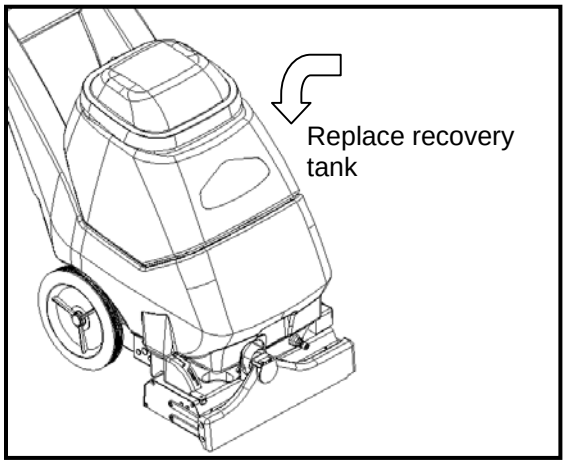
STEP **2**

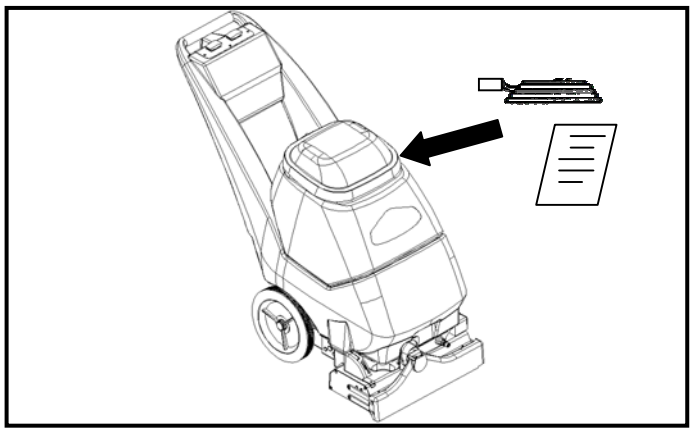


STEP **3**



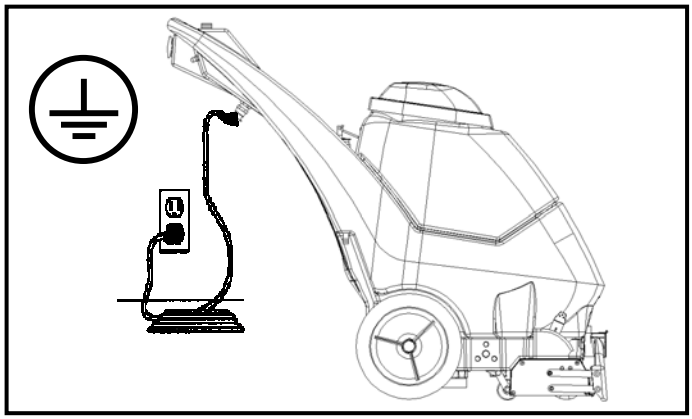
STEP **4**





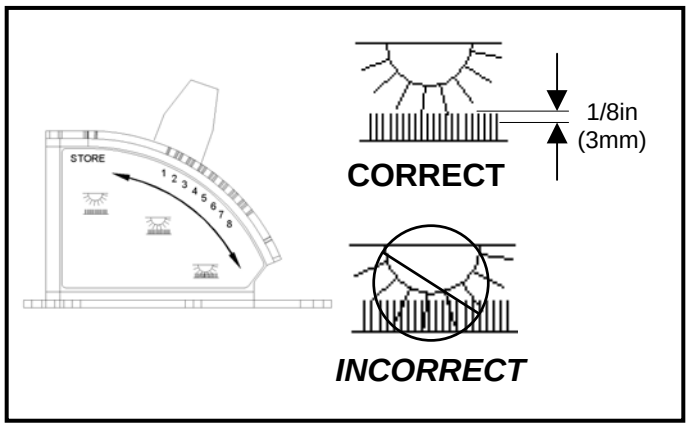
STEP **1**

Remove electrical cord and literature from recovery tank. Fill solution tank (see filling operations, page3-5).



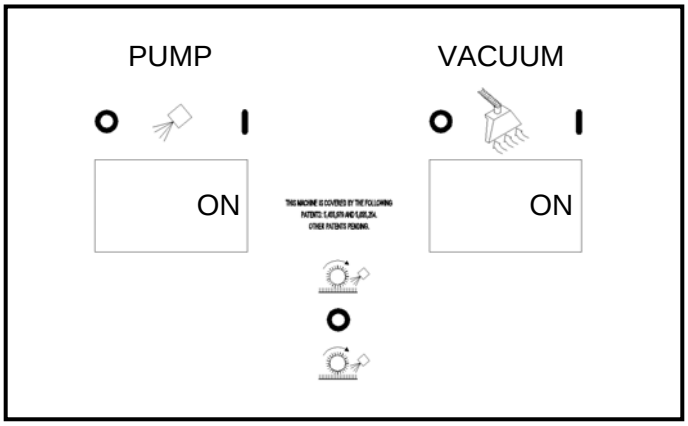
STEP **2**

Plug cord into grounded outlet.
Note: Be sure dome is seated on recovery tank, and float shut-off is installed correctly.



STEP **3**

Adjust brush to proper setting.
Note: For good operation the brush must skim the carpet. If circuit breaker trips raise brush to prevent damage to motor or carpet.

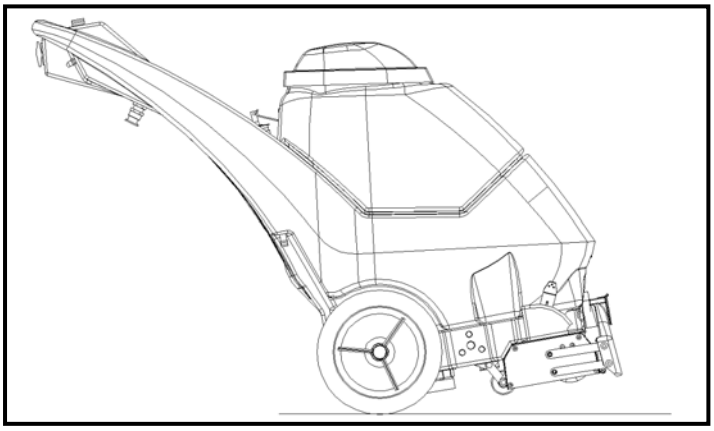


STEP **4**

Turn on both Vacuum and Pump motor switches (“ON”=“I”).

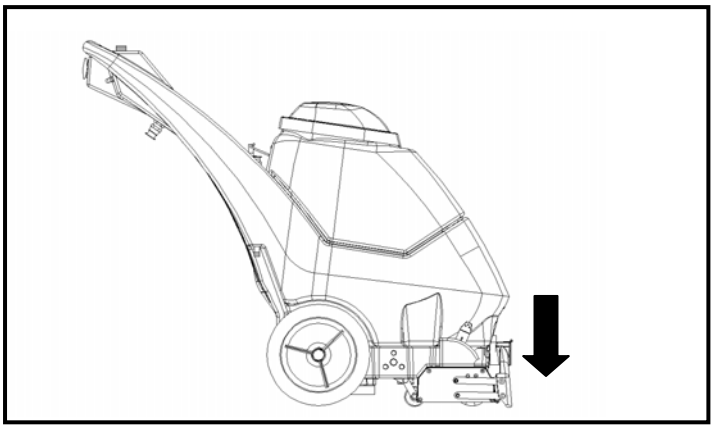
Tip machine back by main handle to move to starting point.

STEP **5**



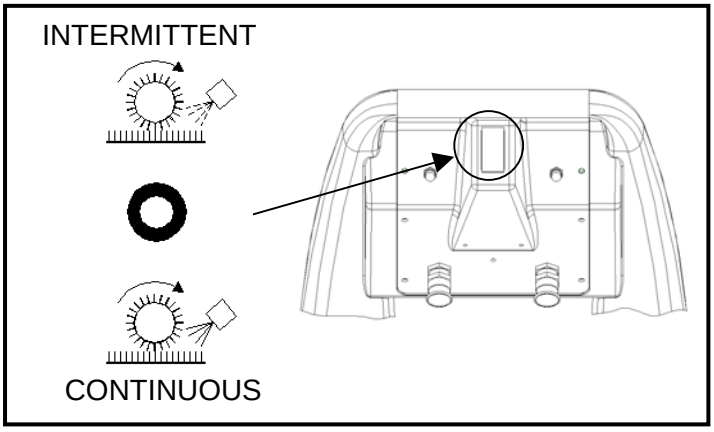
Lower machine to floor.

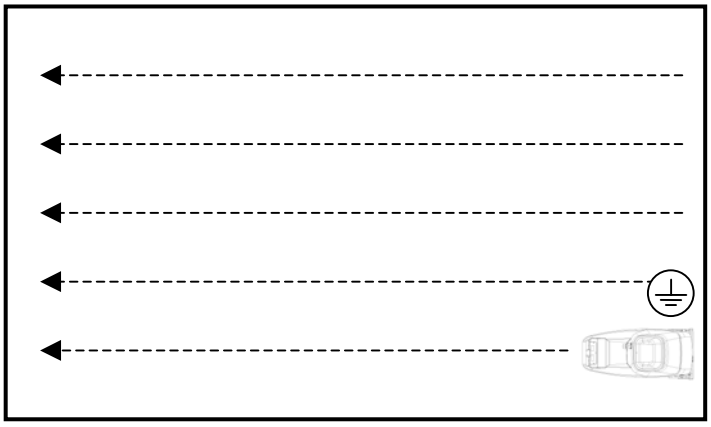
STEP **6**



Select intermittent or continuous switch setting to turn on brush and start solution spray.
The intermittent setting requires the operator to hold the switch in the “on” position with the thumb, and is typically used in small areas where short cleaning passes are made.
The continuous setting allows the operator to set the switch in the “on” position with one touch, and is typically used in large areas where long cleaning passes are made.

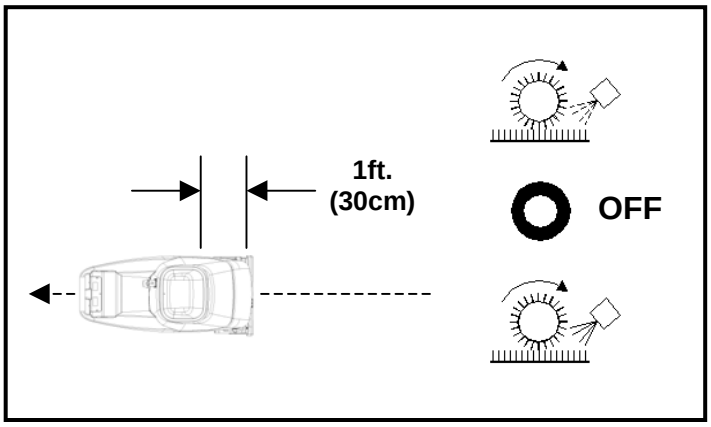
STEP **7**





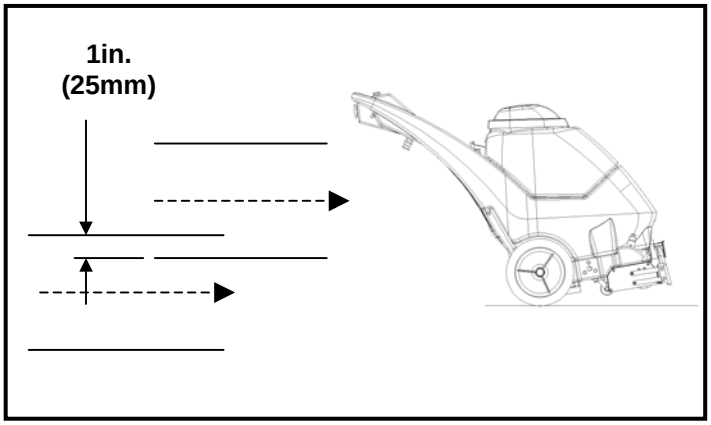
STEP **1**

Start at wall closest to power outlet. Pull straight back without pushing down on handle.



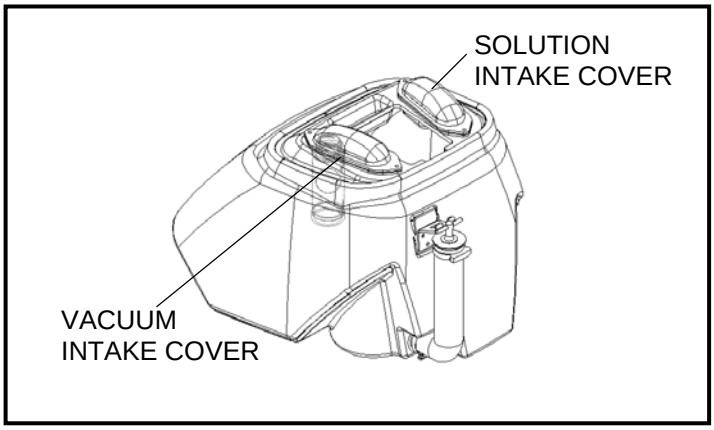
STEP **2**

Release intermittent setting or turn off continuous setting on brush/spray switch approximately 1 foot before ending cleaning pass.



STEP **3**

Push down on handle to raise vacuum shoe and brush before moving to the next cleaning pass. Overlap brush contact area approximately 1inch.



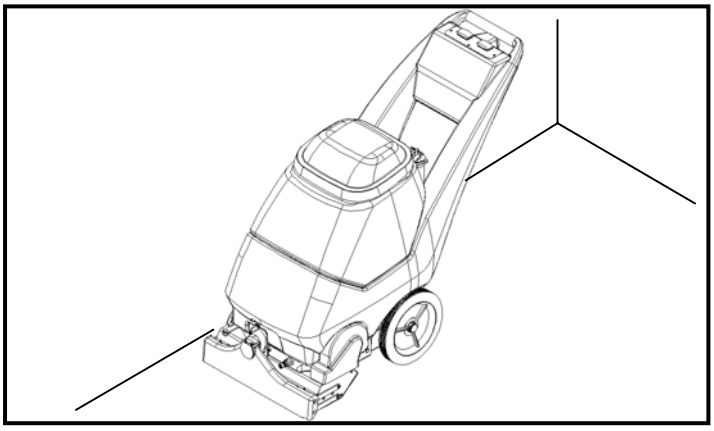
STEP **4**

During operation, observe the following: The Cadet is equipped with clear internal covers to facilitate operator viewing of dirty solution and vacuum air flow.
During operation, observe the vacuum intake cover. Large amounts of water or foam entering the vacuum system can damage the vacuum motor. If you notice either condition, **shut down the machine immediately**. Empty recovery tank and/or add defoamer to recovery tank.

CLEANING PROCEDURE

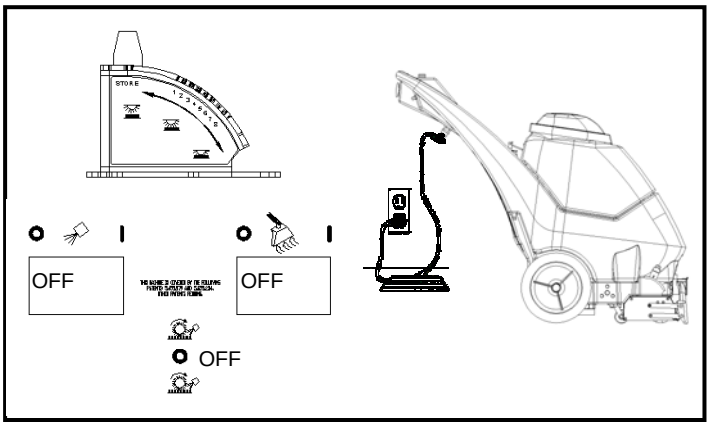
Use right side of machine for cleaning against walls.

STEP **5**



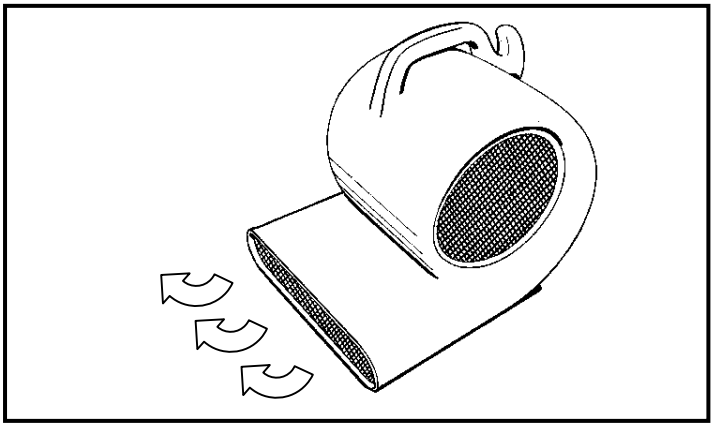
After cleaning, turn off all controls, return brush to storage position and carefully unplug machine.

STEP **6**



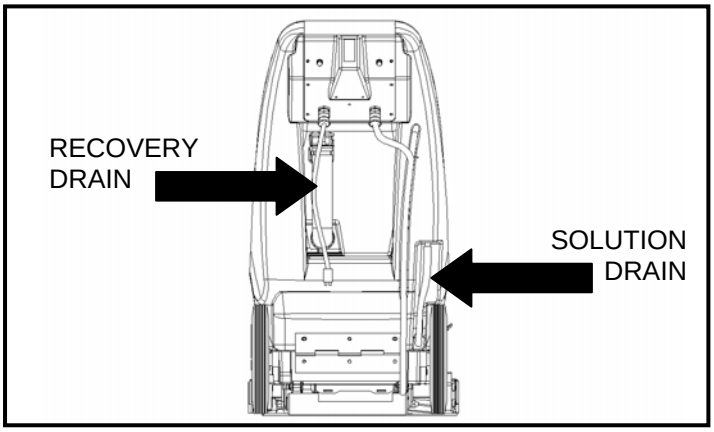
To speed drying, use a Windblower™ fan.

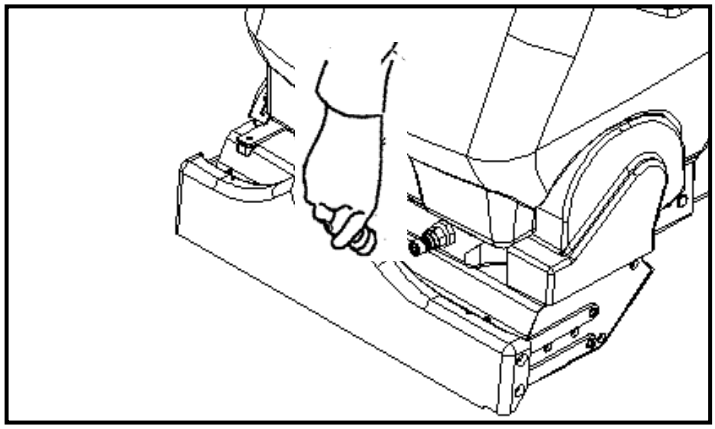
STEP **7**



Empty recovery tank by releasing dump hose. Use a hose with cold water to clean out the recovery tank. Also drain solution tank after each use.

STEP **8**



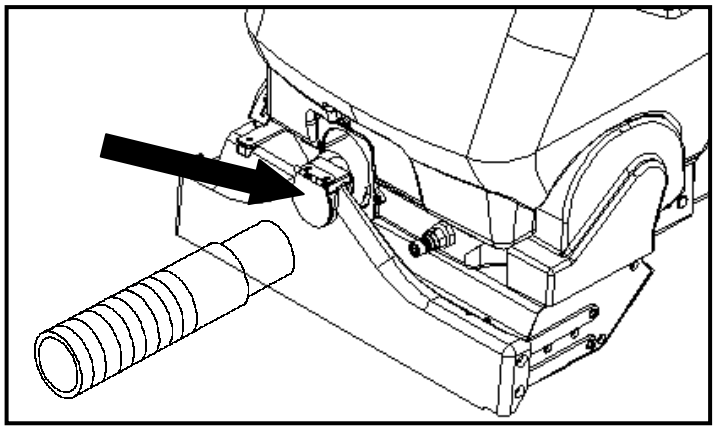


STEP **1**

Use only one of the following acceptable accessory tools.

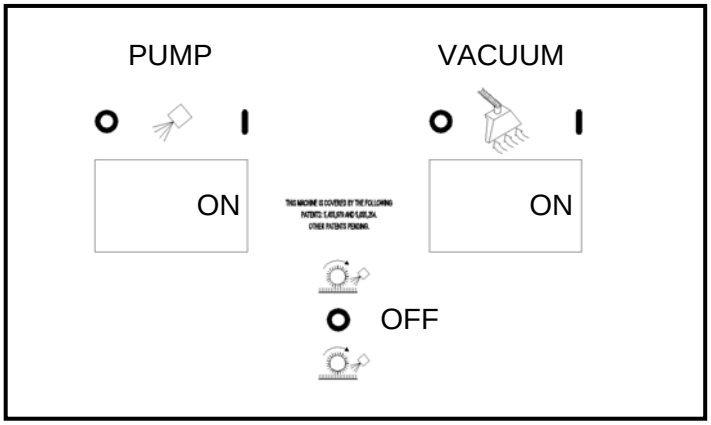
HT	DDH	DH
89227	89226	39504

Pull back collar and insert over machine mounted fitting, then release collar to lock into place.



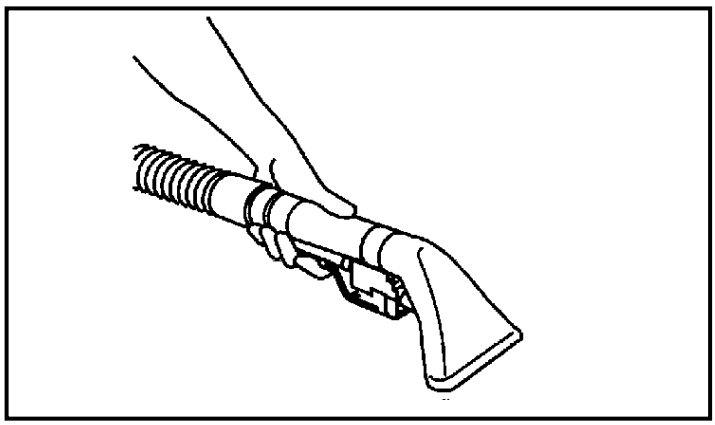
STEP **2**

Lift door on front of vacuum shoe and insert 1 ½ inch hose cuff into hole.



STEP **3**

Turn on Pump and Vacuum Switch. *Note: Be sure intermittent/continuous switch is in center (off) position and brush is in storage position.*



STEP **4**

Squeeze handle on accessory tool to begin cleaning.

SERVICE SCHEDULE

MAINTENANCE	DAILY	WEEKLY	QUARTERLY
Check machine for cord damage	*		
Check recovery dome and gasket for damage and cleanliness	*		
Check brush – should be clean with no lint or strings attached	*		
Inspect vac shoe for blockage; remove fibers with coat hanger, etc.	*		
Check hoses for wear, blockages, or damage	*		
Check handles, switches, and knobs for damage	*		
Check vac motor intake filter and clean	*		
Run one gallon of water through system	*		
Clean out recovery tank and check float valve to make sure it moves freely	*		
Clean out solution tank and remove and clean vacuum intake screen	*		
Clean outside of all tanks and check for damage	*		
Run vac motor for at least one minute to allow motor to dry	*		
Store with dome off tank to allow the tank to dry	*		
Check all bearings for noise		*	
Check all gaskets for wear and leakage		*	
Check vacuum intake screen for damage; replace if necessary		*	
Check pump pressure; observe spray pattern and check with gauge if necessary		*	
Check and clean solution screen		*	
Check belts for wear and replace as necessary		*	
Check brush for wear; ensure bristles are not damaged		*	
Check cables for fraying		*	
Check the spray bar (manifold) for damage; replace if broken or bent		*	
Check condition of vac shoe and frame for damage		*	
Check overall performance of machine		*	
Check vac motor carbon brushes			*

PERIODIC MAINTENANCE
Twice a month, flush a white vinegar solution (One quart vinegar to two gallons of water) or anti-browning solution (mixed as directed) through the extractor. This will prevent build-up of alkaline residue in the system. If spray jets become clogged, remove the spray tips, wash them thoroughly, and blow-dry.

NOTE: Do not use pins, wire, etc. to clean nozzles as this could destroy spray pattern.

Periodically inspect all hoses, electrical cables and connections on your machine. Frayed or cracked hoses should be repaired or replaced to eliminate vacuum or solution pressure loss. If the cable insulation is broken or frayed, repair or replace it immediately. Don't take chances with electrical fire or shock.

DAILY / REGULAR MAINTENANCE
Before making any adjustments or repairs to the machine, disconnect the power cord from electrical source.

1. Empty unused cleaning solution from the solution tank.
2. Inspect and clean filter screen in solution tank.
3. Flush pumping system with 4 or 7 liters of clean, hot water.
4. After each use, rinse tank with fresh water. Periodically inspect the recovery tank and decontaminate if necessary, using a Hospital Grade Virucide or a 1-10 bleach to water solution. Waste water should be disposed of properly.
5. Check for and remove any lint or debris around vac shoe.
6. Check spray jets for full spray pattern.
7. Remove lint and dirt build-up from brush and housing.
   NOTE: Brush removal.
   A. To remove brush, grab and pull brush out from end opposite drive belt (operator's right). Remove other end from brush driver.
   B. To install brush, line up slots in brush core with pin in driver on drive belt side (operator's left) and push brush onto driver. Then snap bearing end (opposite end) of brush into retaining clip.
8. Check cooling air screen (located on frame behind left wheel) for lint or debris.
9. Check float and shut-off screen and clean as necessary.

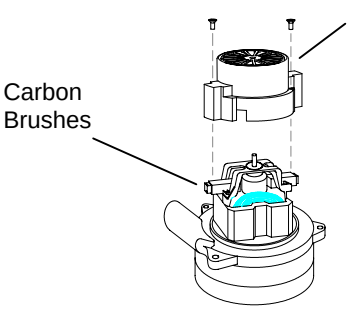
NOTE: Always store machine with brush in "Store" position.

⚠ WARNING: ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

VACUUM MOTOR REPLACEMENT

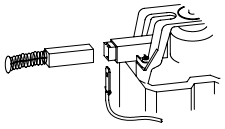
1. Turn off all switches and unplug machine.
2. Remove recovery tank.
3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
4. Locate the vacuum motor wires and disconnect at the connector. Close the solution tank.
5. Remove the (6) screws holding the vacuum motor cover (p/n 27809) to the solution tank.
6. Remove the vacuum motor.
7. Reverse process to install vacuum motor.

Vacuum Motor Carbon Brushes Replacement (Windsor)

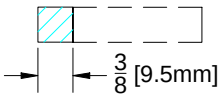


WARNING: The green ground wire must be attached for safe operation. See wiring diagram.

If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.

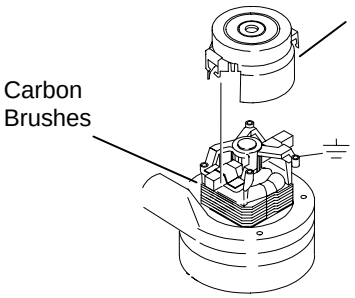


Important:
These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.



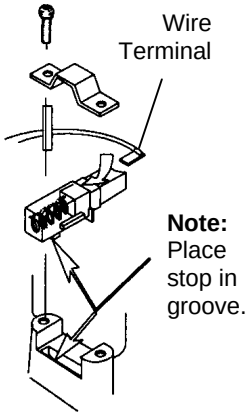
Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

Vacuum Motor Carbon Brushes Replacement (Ametek)

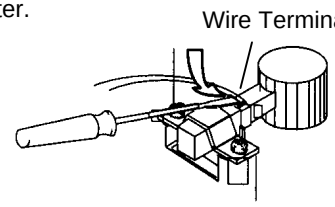


WARNING: The green ground wire must be attached for safe operation. See wiring diagram.

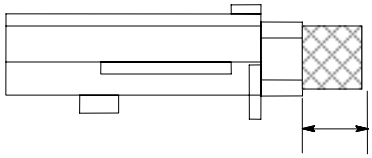
Note: *When replacing carbon brushes loosen wire terminal* ***BEFORE*** *removing screws on bracket.*



If armature commutator is grooved, extremely pitted or not concentric, the motor will need to be replaced or sent to a qualified service center.



Important:
These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.

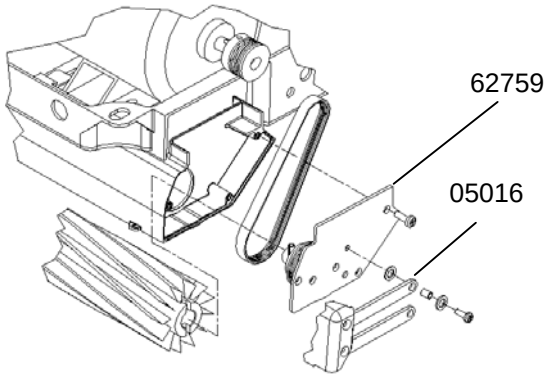


Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

⚠ WARNING: ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

BELT REPLACEMENT

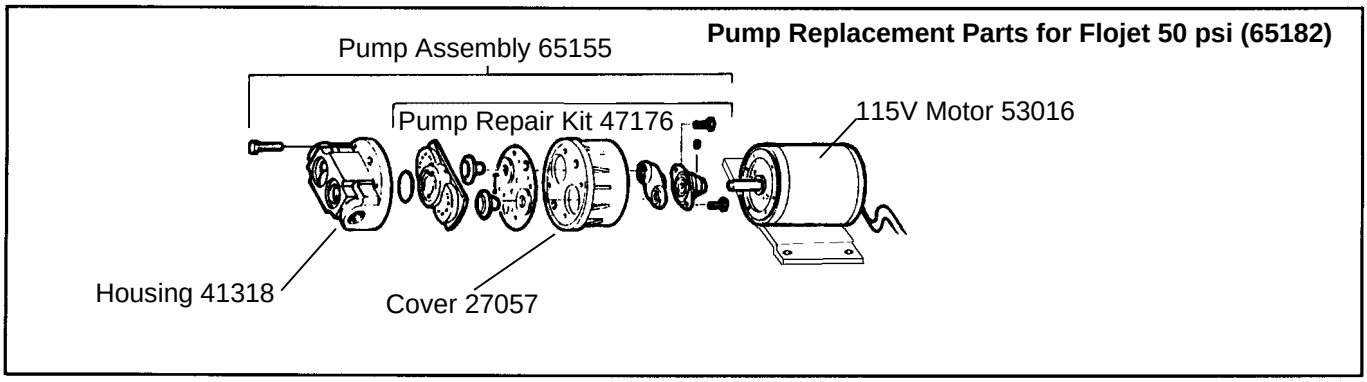
1. Turn off all switches and unplug machine.
2. Remove recovery tank and brush.
3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
4. Loosen the (4) screws that hold the brush motor in place and slide motor forward to release tension in belt.
5. Remove the (2) screws that fasten the vacuum shoe links (p/n 05016) to the brush housing.
6. Remove the (3) screws that fasten the side plate (p/n 62759) to the brush housing to remove belt. *NOTE: All components associated with driving the brush will come out with the side plate.*
7. Reverse process to install belt.

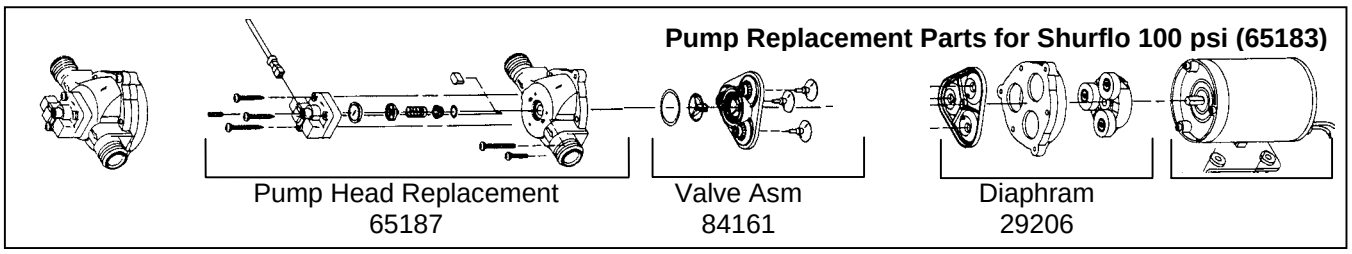


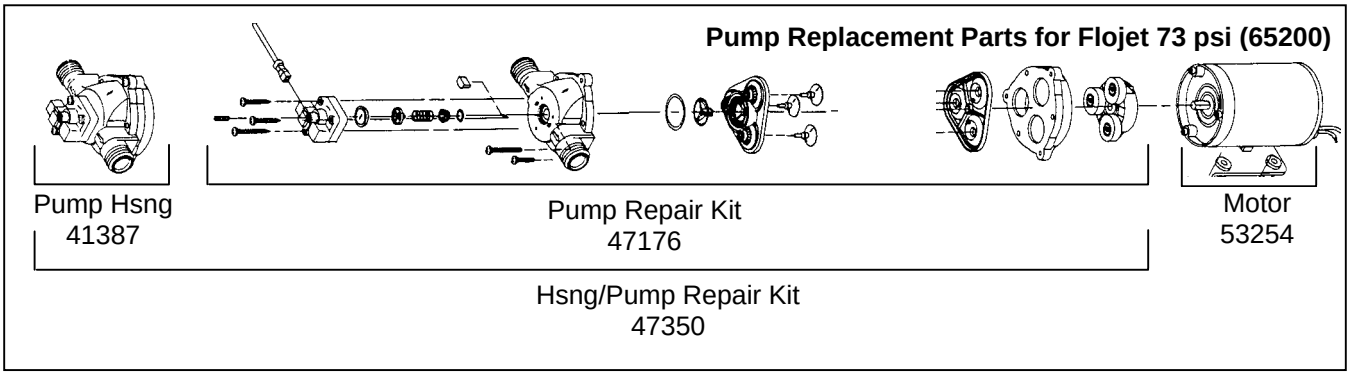
⚠ WARNING: ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

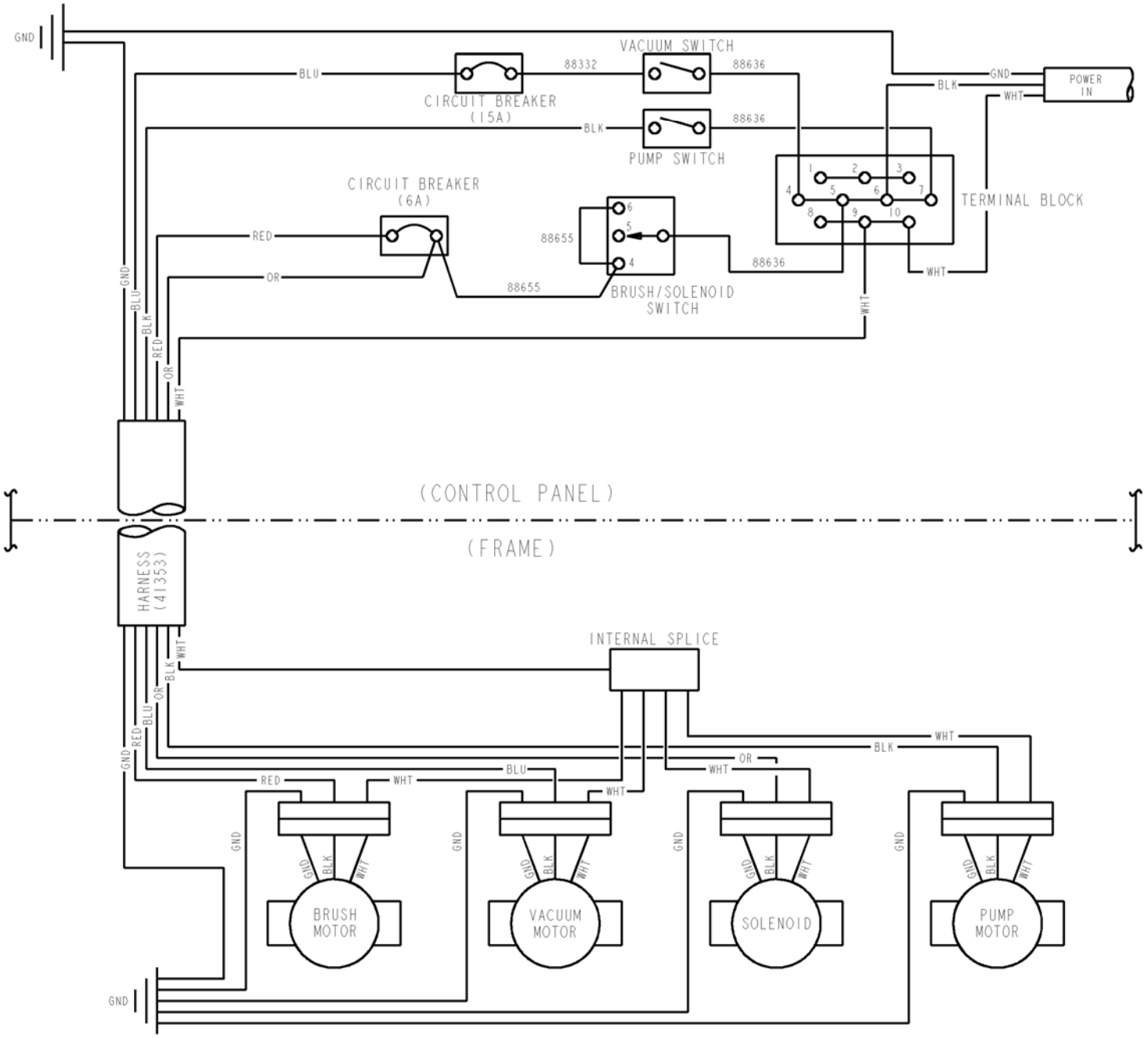
SOLUTION PUMP REPLACEMENT

1. Turn off all switches and unplug the machine.
2. Remove recovery tank.
3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
4. Remove solution hoses from fittings in pump.
5. Remove the (2) screws that fasten the pump to the frame.
6. Reverse process to install pump.








GND
VACUUM SWITCH
BLU
88332
88636
CIRCUIT BREAKER
(15A)
BLK
GND
POWER
IN
WHT
BLK
88636
PUMP SWITCH
CIRCUIT BREAKER
(6A)
TERMINAL BLOCK
RED
88655
OR
88655
BRUSH/SOLENOID
SWITCH
88636
WHT
WHT
GND
BLU
BLK
RED
OR
WHT
(CONTROL PANEL)
(FRAME)
HARNESS
(41353)
INTERNAL SPLICE
WHT
BLK
OR
BLU
RED
GND
WHT
BLK
OR
WHT
BLU
RED
WHT
WHT
GND
GND
GND
GND
GND
BLK
WHT
BRUSH
MOTOR
VACUUM
MOTOR
SOLENOID
PUMP
MOTOR
GND

TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION
No Power, Nothing Runs	Is the cord plugged in.	Plug in cord.
	Circuit breaker tripped in building.	Reset breaker.
	Faulty switch.	Call for service.
	Faulty power cord or pigtail.	Call for service.
Vacuum Motor Will Not Run	Vacuum circuit breaker tripped.	Reset breaker.
	.Faulty main vacuum switch.	Call for service.
	Loose wiring.	Call for service.
	Faulty vac motor.	Call for service.
Vacuum Motor Runs But Suction Is Poor	Debris lodged in vac shoe.	Remove debris from vac shoe.
	.Dome gasket defective or missing.	Replace as necessary.
	Vacuum hose cracked or hose cuff loose.	Replace or repair as necessary.
	Recovery tank full / float ball stuck in the up position.	Turn off vac motor. Drain and rinse recovery tank.
Poor Or No Water Flow (Carpet Is Streaky)	Main pump switch off.	Turn on.
	Jets clogged or missing.	Clean using a vinegar /water solution or replace.
	Solution filter clogged.	Drain solution tank and clean solution filter.
	Faulty solenoid.	Call for service.
Brush Does Not Spin	Brush switch off.	Turn on brush switch.
	Brush circuit breaker tripped.	Reset circuit breaker.
	Brush belt broken.	Replace as necessary.
	Faulty brush motor.	Call for service.

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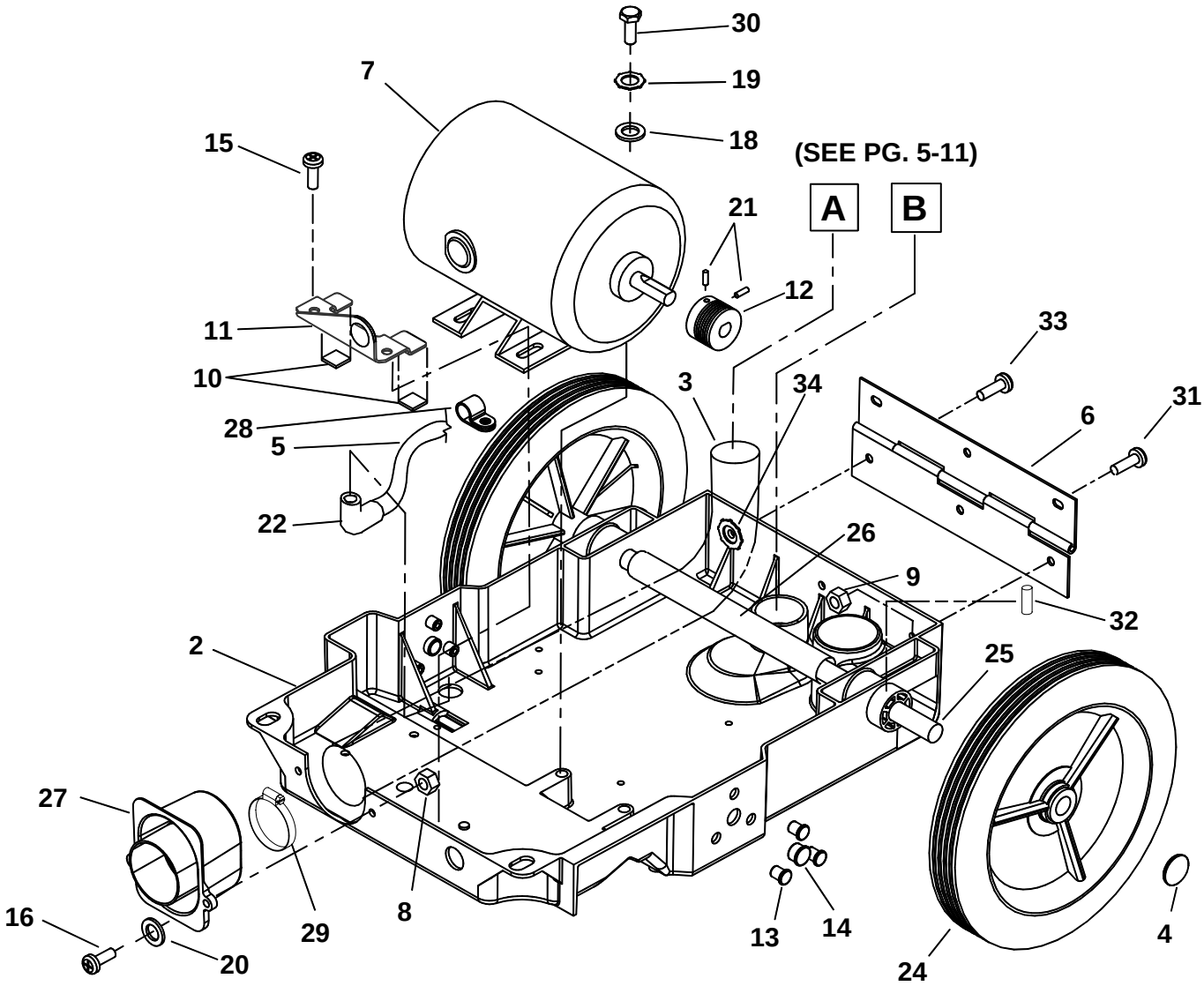
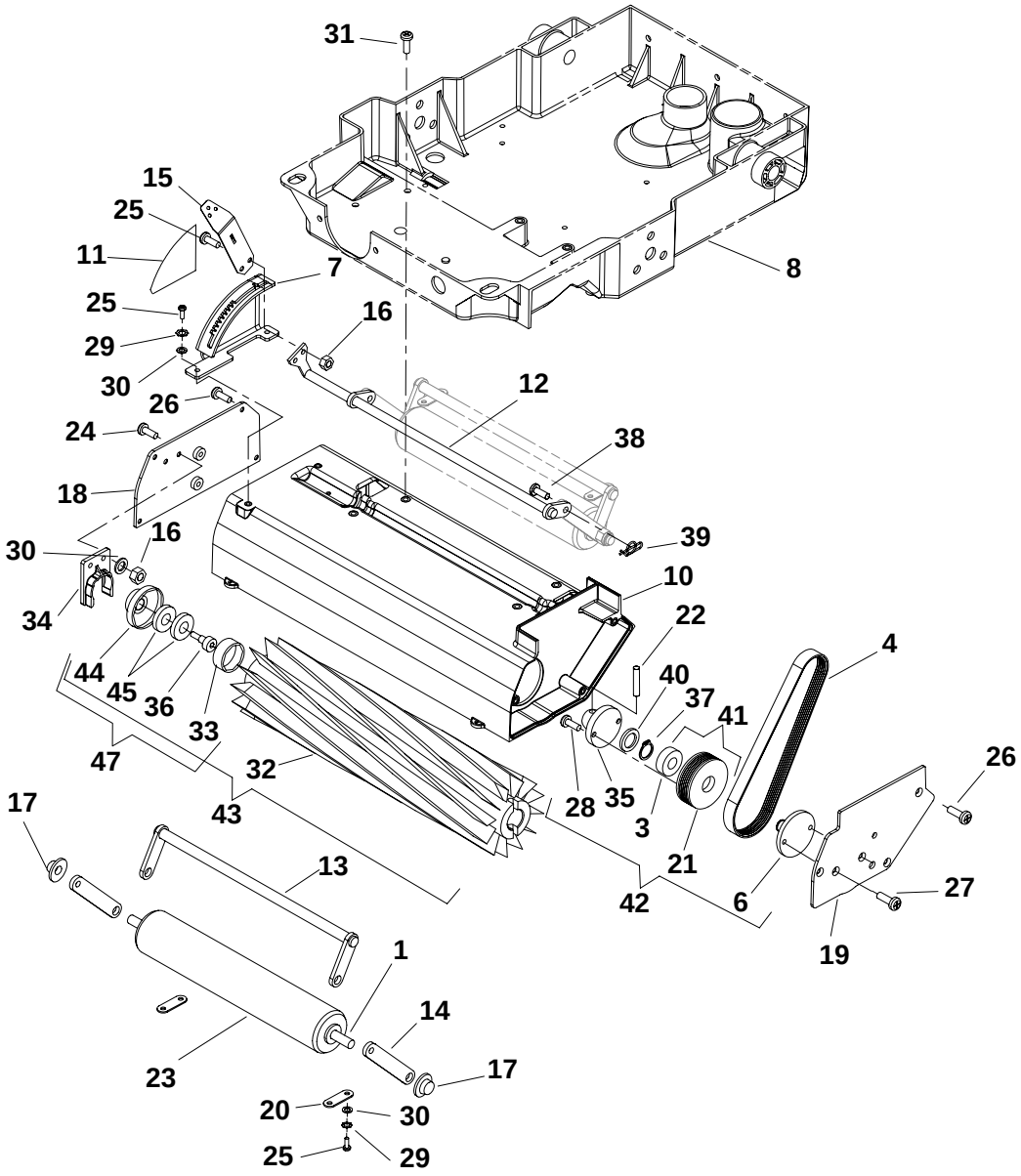
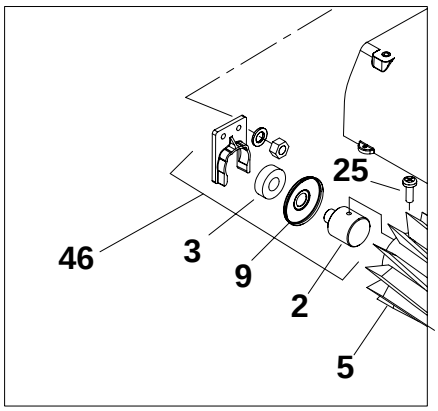
FRAME ASSEMBLY



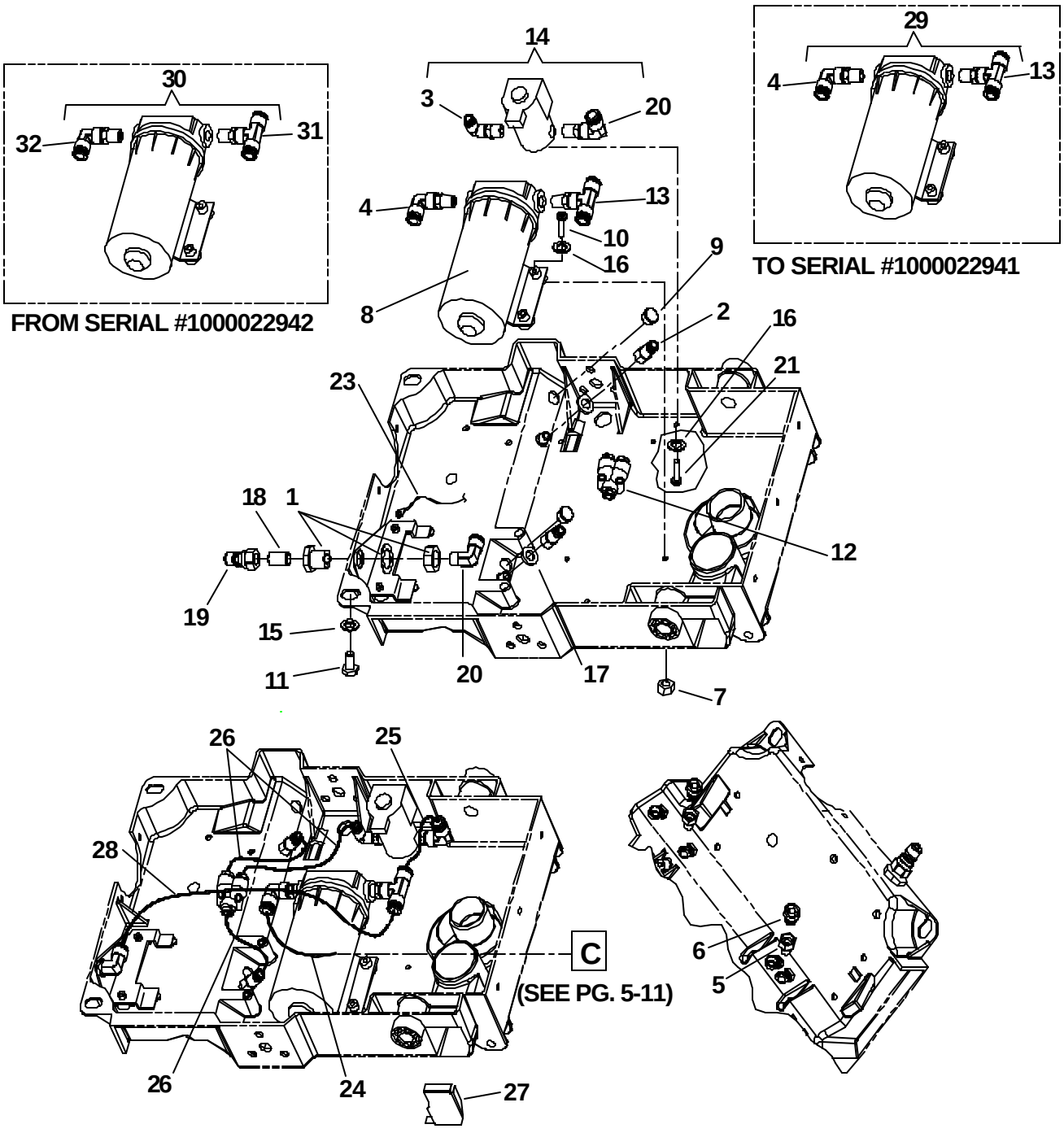
REF	PART NO.	QTY	DAESCRIPTION	SERIAL NO. FROM	NOTES:
1	OPEN	-	-		
2	34341	1	FRAME, CLP FAMILY		
3	39528	1	HOSE ASM, 1.5 BLK VAC X 15.5		
4	41236	2	HUBCAP, 5/8” SHAFT		
5	41353	1	HARNESS, MAIN, CDT		
6	41354	1	HINGE, TANK TO FRAME		
7	53640	1	MOTOR ASM, BRUSH CLP FAMILY		
8	57030	2	NUT, 10-32 HEX NYLOCK		
9	57245	3	NUT, 1/4-20 HEX NYLOCK SS		
10	99809	2	FOAM TAPE, 1/8 THK X 3/4 1SDA		
11	62761	1	PLATE, BRUSH MTR CLAMP	100046610	
12	64099	1	PULLEY, 1.4 OD, 6GR, MICRO-V		
13	66282	6	PLUG, HOLE, .375” BLK		
14	66288	2	PLUG, 9/16 OD BLK NYLON		
15	70085	2	SCR, 1/4-20 X 1/2 PPHMS SS		
16	70066	2	SCR, 10-32 X 3/4 PPHMS		
17	OPEN	-	-		
18	87013	2	WASHER, 1/4 ID X 5/8 OD SS		
19	87025	2	WASHER, 1/4 LOCK EXT STAR SS		
20	87018	2	WASHER, #10 X 9/16 OD		
21	70074	2	SET SCR, 10-32 X 1/4 KCP		
22	73197	1	STRAIN RELIEF, 90 DEGREE		
23	OPEN	-	-		
24	89114	2	WHEEL, 1-5/16 X 9.625 DIA		
25	03107	1	AXLE, 5/8 X 17.06L		
26	99667	10”	HEAT SHRINK, 3/4 ID UL/CSA		
27	73943	1	SEAL, FRAME/TANK		
28	20035	1	CLAMP, 7/16 DIA NYLON UL		
29	20041	1	CLAMP, 2.0” WORM GEAR		
30	70271	2	SCR, 1/4-20 X ½ HHCS PLTD		
31	70057	2	SCR, 1/4-20 X 1 PPHMS SS		
32	66052	1	PIN, ROLL 1/8” X 1.0”L		
33	70697	1	SCR, 1/4-20 X 1.25 PPHMS SS		
34	57105	3	NUT, 1/4-20 HEX W/ STAR WASHER		

BRUSH ASSEMBLY





REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	03110	1	AXLE, ROLLER		
2	04084	1	ADAPTER, BRUSH BRG.		
3	09019	2	BEARING, 1.125ODX.500IDX.375		
4	11045	1	BELT, 180J6 MICRO-V		
A	12031	1	BRUSH, 15L X 3.38OD		
6	140343	1	BRKT, BRUSH PULLEY		
7	140351	1	BRKT, BRUSH HEIGHT		
8	34341	REF	FRAME, CLP FAMILY		
9	36192	2	GUARD, THREAD		
10	41345	1	HOUSING, BRUSH 15"		
11	50998	1	LABEL, BRUSH HEIGHT		
12	51311	1	LINKAGE, ASM, BRUSH HEIGHT		
13	51312	1	LINKAGE ASM, ROLLER SUPPORT		
14	51314	2	LINK, ROLLER, FRONT		
15	51317	1	LEVER, HEIGHT ADJUSTMENT		
16	57030	4	NUT, 10-32 HEX NYLOCK		
17	57271	2	NUT, 3/8 DIA CAP, TYPE PUSH PLT		
18	62758	1	PLATE, BRUSH HOUSING RH		
19	62759	1	PLATE, BRUSH HOUSING LH		
20	62762	2	PLATE, AXLE RETAINER		
21	64098	1	PULLEY, 2.2 OD, 6GR, MICRO-V		
22	66192	1	PIN, ROLL 1/4 X 1.25L		
23	67411	1	ROLLER, 1.9 DIA X 10.5 LG		
24	70043	2	SCR, 10-32 X 5/8 PFHMS		
25	70088	6	SCR, 10-32 X 1/2 PPHMS SS DL		
26	70177	7	SCR, 10-32 X 1/2 FHMS SS		
27	70232	2	SCR, 10-32 X 3/8 FHMS SS		
28	70497	2	SCR, #10-24 X 1/2 SHCS		
29	87016	4	WASHER, #10 LOCK EXT STAR SS		
30	87018	6	WASHER, #10 X 9/16 OD		
31	70675	4	SCR, 1/4-20 X.5/8 THMS PLTD NP		
32	12524	1	BRUSH, 15 L X 3.35 OD G2	1000090563	
33	67467	1	RING, TOLERANCE 7/8	1000090563	
34	27805	1	CLIP, BEARING		
35	29157	1	DRIVER, BRUSH		
36	70737	1	SHLDR BOLT, 3/8 OD X 3/8 L SS NP	1000090563	
37	67094	1	RING, 1/2 EXT. SNAP		
38	66310	2	PIN, CLEVIS 1/4 X 1/2 PLTD		
39	80604	2	COTTER, 1/4" RING		
40	73966	1	SPACER, .81ID X 1.06OD, ALUM		
41	64102	1	PULLEY ASM, BRUSH		
42	29208	1	DRIVER ASM, BRUSH		
43	12514	1	BRUSH ASM, 15 IN		
44	05158	1	ADAPTER, BRUSH BRG. DIE CAST	1000090563	
45	09137	2	BEARING, R6 3/8 ID	1000090563	
46	47383	1	BRUSH BEARING ASM.		
47	47416	REF	KIT, BRNG/ADPTR EXTRCTR		


30
32
31
FROM SERIAL #1000022942
14
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4
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2
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TO SERIAL #1000022941
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(SEE PG. 5-11)
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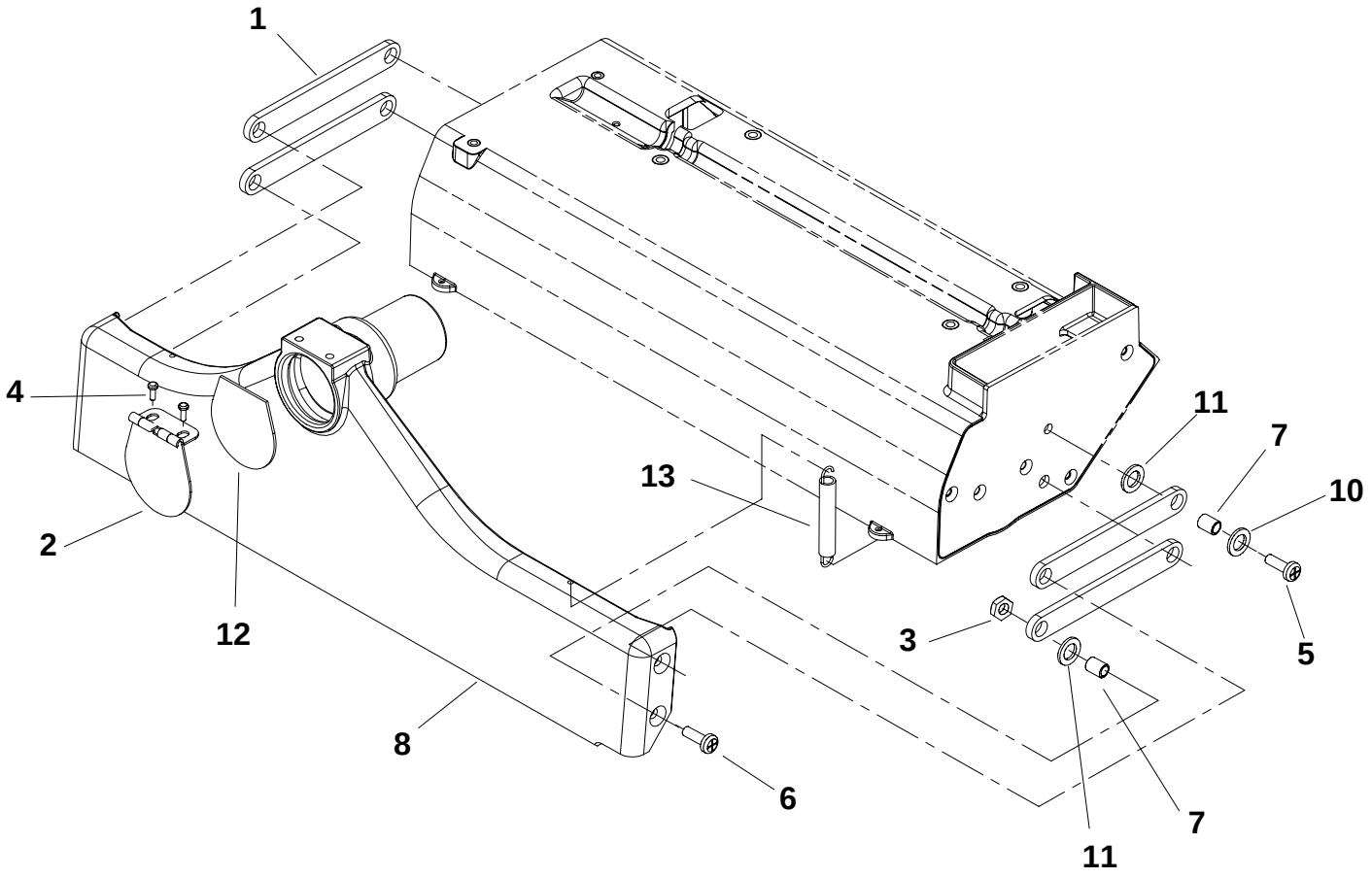
27

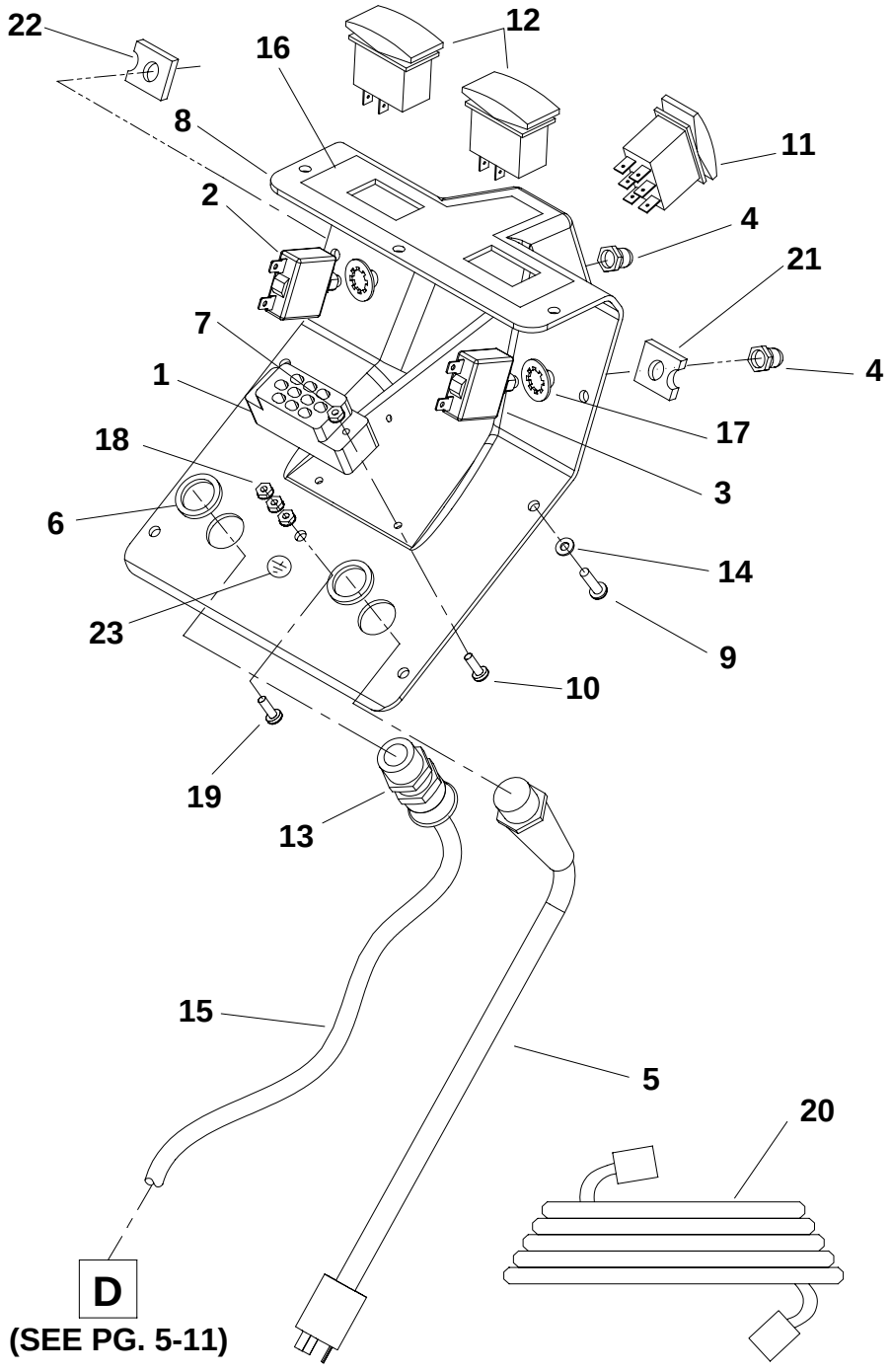
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	22072	1	COUPLING, 1/4 ANCHOR W/1" HEX		
2	22090	2	CONNECTOR, 1/8FPT X 1/4 TUBEQC		
3	31072	1	ELBOW, SWIVEL, 1/4MPTX1/4TUBE		
4	31073	1	ELBOW, SWIVEL,1/4MPTX3/8TUBEQC		
5	44067	2	JET BODY, MINI PROMAX BODY		
6	44068	2	JET, MINI PROMAX 9504		
7	57030	2	NUT, 10-32 HEX NYLOCK		
8	65200	1	PUMP ASM, 115V 73 PSI W/CONN	1000029065	
9	66288	2	PLUG, 9/16 OD BLK NYLON		
10	70386	2	SCR, 10-32 X 1.0 PPHMS		
11	70011	2	SCR, 1/4-20 X 5/8 HHCS SS		
12	34355	1	FITTING,1/4 TUBE,"Y", QC		
13	78420	1	TEE, 1/4 MPT X 3/8 TUBE, QC		
14	84160	1	VALVE ASM,SOLENOID CLP FAMILY		
15	87191	2	WASHER, 1/4"IDX1.0OD. FLAT SS		
16	87018	4	WASHER, #10 X 9/16 OD		
17	87192	2	WASHER, 7/16 X 3/4 X .19RUBBER		
18	56014	1	NIPPLE, 1/4 CLOSE		
19	56012	1	NIPPLE, 1/4 FPT QD		
20	31076	2	ELBOW, 1/4 MPT X 3/8 TUBE, QC		
21	70162	2	SCR, 10-32 X 3/8 PPHMS SS		
22	-	-	OPEN		
23	880278	1	WIRE, 22" GRN/18 76011 X 76011	1000046610	
24	39529	1	HOSE, 3/8 URETHANE X 29"		
25	39530	1	HOSE, 3/8 NYLON X 6"		
26	39531	3	HOSE, 1/4 URETHANE X 6"		
27	73963	1	SCREEN, INTAKE		
28	39591	1	HOSE, 3/8 ID NYL11 YLW X 29”		
29	65182	REF	PUMP ASM, 115V 50 PSI FLOJET	1000000000	X-REF TO 47306
30	65183	REF	PUMP ASM, 115V 100 PSI SHURFLO	1000022942	X-REF TO 47306
31	78419	REF	TEE, 3/8 MPT X 3/8 TUBE QC	1000022942	
32	31074	REF	ELBOW, SWIVEL 3/8 MPT X 3/8 TUBE QC	1000022942	

VACUUM SHOE ASSEMBLY



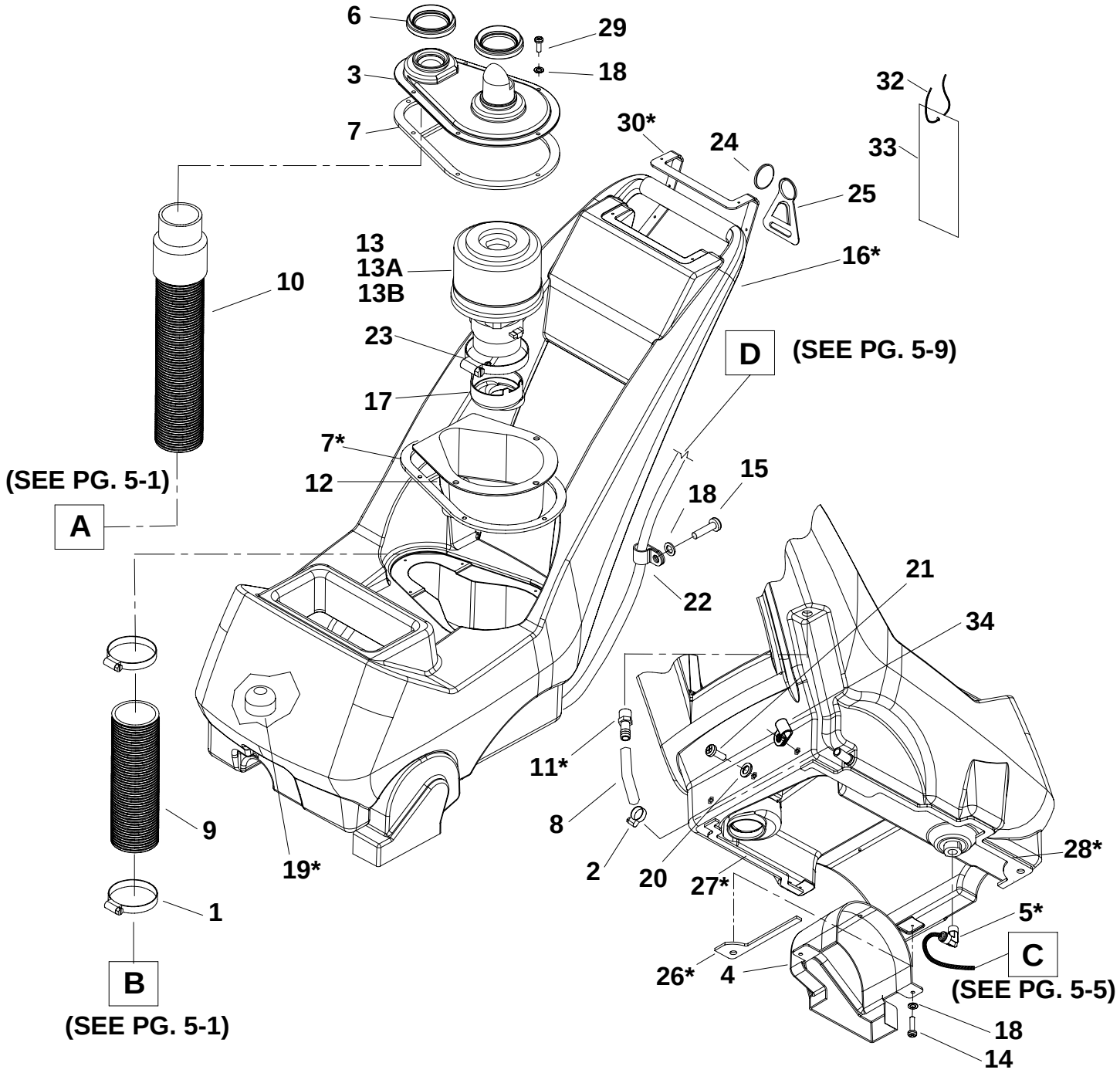
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	05016	4	ARM, VAC SHOE PARALLEL		
2	27674	1	COVER, ACCESSORY PORT		
3	57245	4	NUT, 1/4-20 HEX NYLOCK SS		
4	70351	2	SCR, 10-32 X 3/8 HHTR W/STAR		
5	70360	4	SCR, 1/4-20 X.75 PPHMS PHIL		
6	70390	4	SCR, 1/4-20 X 1 FHCS PLTD		
7	73958	8	SPACER, 3/8ODX.058WX.2814,CRS		
8	85039	1	VAC SHOE, 15"		
9	OPEN	-	-		
10	87013	4	WASHER, 1/4 ID X 5/8 OD SS		
11	87074	8	WASHER, WAVE 3/8ID X3/4D X.125		
12	35171	1	GASKET, ACCESSORY PORT		
13	73955	2	SPRING, EXT .38D X2.75L X.055W		

CONTROL PANEL ASSEMBLY



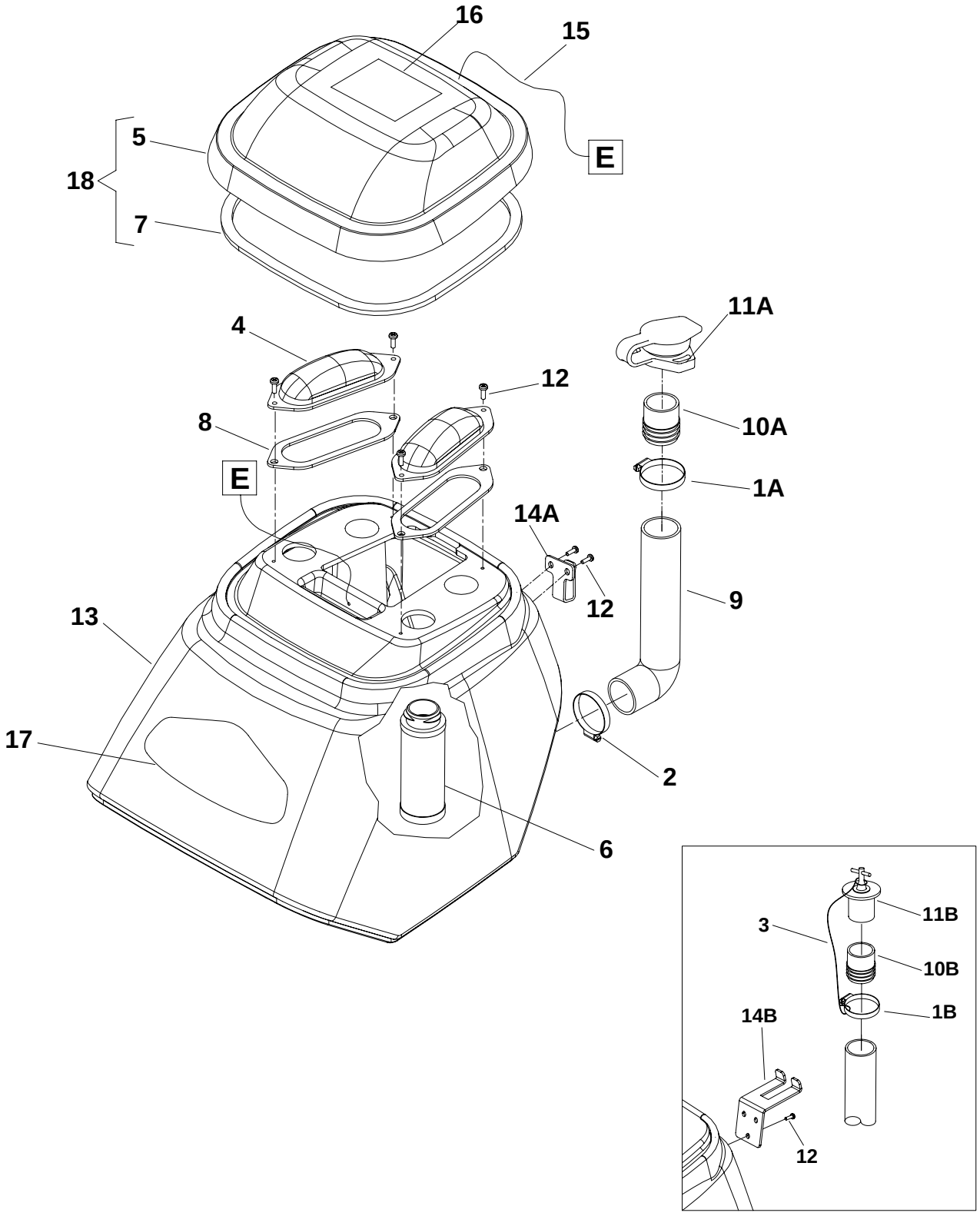
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	14020	1	TERMINAL BLOCK, 115V (3-4-3)		
2	14700	1	BREAKER, 15A 250VAC 50VDC		
3	14832	1	BREAKER, 6A VDE CIRCUIT		
4	14942	2	BOOT, 3/8 CIRCUIT BREAKER		
5	23679	1	CORD ASM, 14/3 X 22" YLW		
6	57040	2	NUT, 1/2 NPT CONDUIT		
7	57116	2	NUT, 6-32 W/STAR WASHER PLTD		
8	61348	1	PANEL, CADET CONTROL		
9	70532	9	SCR, 10-32 X 1/2 PPHMS BLK NP	1000032157	
10	70235	2	SCR, 6-32 X 1.0 PH BLK NYLON		
11	72126	1	SWITCH, DPDT 3-POSITION ROCKER		
12	72130	2	SWITCH, SPST 2-POSITION ROCKER		
13	73505	1	STRAIN RELIEF, 1/2 NPT TRUMPET		
14	87189	9	WASHER, .2IDX.500 BLK SS		
15	41353	REF	HARNESS, MAIN, CDT		
16	500180	1	LABEL, CONTROL PANEL, CDT		
17	87100	2	WASHER, 3/8 ID INT.LOCK THIN		
18	57104	3	NUT, 10-32 W/STAR WASHER PLTD		
19	70386	1	SCR, 10-32 X 1.0 PPHMS		
20	23086	1	CORD SET,14/3 SJTW-A X 50' YLW		
21	500077	1	LABEL, CIRCUIT BREAKER BRUSH		
22	500078	1	LABEL, CIRCUIT BREAKER VAC		
23	50279	1	LABEL, GROUND SYMBOL		

SOLUTION TANK ASSEMBLY



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	20041	3	CLAMP, 2.0" WORM GEAR		
2	20042	1	CLAMP, 3/8 HOSE (D-SLOT)		
3	27809	1	COVER, VAC MOTOR		
4	27810	1	COVER, BELT		
5	31081	1	ELBOW, 3/8 MPT X 3/8 TUBE, PLASTIC		
6	35175	2	GASKET, TANK TO VAC COVER		
7	35231	2	GASKET, VAC COVER (CLP FAMILY)		
8	39526	1	HOSE,1/2 CLEAR X 12		
9	39527	1	HOSE, 1.5 BLK VAC X 3.0		
10	39528	REF	HOSE ASM, 1.5 BLK VAC X 15.5		
11	40049	1	HOSEBARB, 3/8MPT X 1/2 NYLON		
12	41348	1	HOUSING, VAC MOTOR		
13	53789	1	VAC MOTOR ASM, CLP FAMILY		
13A	14258		BRUSH SET, 120V 5.7 VAC, AMETEK	*	SERVICE ONLY
13B	140687		BRUSH SET, 120V VAC, WINDSOR	*	SERVICE ONLY
14	70114	2	SCR, #10 X 3/4 PPHST TYPE B		
15	70088	2	SCR, 10-32 X 1/2 PPHMS SS	1000032157	
16	75257	1	TANK, CDT SOLUTION		
17	85037	1	VENT, COOLING AIR SMALL		
18	87018	10	WASHER, #10 X 9/16 OD		
19	73864	1	STRAINER, 3/8 IN. NPT 60 MESH		
20	87013	3	WASHER, 1/4 ID X 5/8 OD SS		
21	70085	3	SCR, 1/4-20 X 1/2 PPHMS SS DL		
22	20035	2	CLAMP, 7/16 DIA NYLON UL		
23	20092	1	CLAMP, 3.5" WORM GEAR		
24	67147	1	RING, 2" DIA SPLIT		
25	73169	1	STRAIN RELIEF, CORD HOOK		
26	35236	1	GASKET, TANK, L-F		
27	35237	1	GASKET, TANK, L-R		
28	35238	1	GASKET, TANK, RH		
29	70525	6	SCR, #10 X 1.0 PPHST TYPE B		
30	35235	1	GASKET, CDT PANEL		
31	75276	1	TANK ASM, SOLUTION CDT7		* ITEMS INCLUDED
32	27417	1	CORD, 99807 1/8 X 12"		
33	500012	1	CARD, INSTRUCTION CDT7		
34	03-000261	1	CLAMP, CABLE 1/2 ID 1/4BLT		

RECOVERY TANK ASSEMBLY



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1A	20064	1	CLAMP, 2.0" WORM GEAR X .312	1000083443	
1B	20002	1	CLAMP, 2.0” WORM GEAR		
2	20041	1	CLAMP, 2.0" WORM GEAR		
3	27670	1	CORD, DRAIN HOSE		
4	27816	2	COVER, REC. TANK		
5	28060	1	DOME, CLP FAMILY		
6	34351	1	FLOAT SHUT-OFF		
7	35230	1	GASKET, DOME		
8	35232	2	GASKET, PORT COVER		
9	39353	1	HOSE, 1.5 X 12.0 DRAIN		
10A	41391	1	HOSE, INSERT	1000083443	
10B	40019	1	HOSEBARB, 1.5 DOUBLE MCHD		
11A	41390	1	HOSE, CAP	1000083443	
11B	66227	1	PLUG, DRAIN HOSE		
12	70114	6	SCR, #10 X 3/4 PPHST TYPE B		
13	75258	1	TANK, CDT RECOVERY		
14A	140408	1	BRKT, HOSE HOOK	1000083443	
14B	140133	1	BRKT, RECOVERY HOSE MTG		
15	27417	1	CORD, 99807 1/8 X 12"		
16	500009	1	LABEL, WARNING		
17	50995	1	LABEL, CADET MAIN		
18	28061	1	DOME ASM, CLP FAM		

SUGGESTED SPARE PARTS

SUGGESTED SPARE PARTS		
DESCRIPTION	**PART NUMBER**	**SERIAL # FROM**
BRUSH, 15L X 3.38OD	12031	
BELT, 180J6 MICRO-V	11045	
BEARING, 1.125ODX.500IDX.375	09019	
JET BODY, MINI PROMAX BODY	44067	
JET, MINI PROMAX 9504	44068	
PUMP ASM, CDT	65182	
VALVE ASM, SOLENOID CLP FAMILY	84160	
GASKET, ACCESSORY PORT	35171	
BREAKER, 15A 250VAC 50 VDC	14700	
BREAKER, 6A VDE CIRCUIT	14832	
SWITCH, SPST 2-POSITION ROCKER	72130	
SWITCH, DPDT 3-POSITION ROCKER	72126	
VAC MOTOR ASM, CLP FAMILY	53789	
STRAINER, 3/8 IN. NPT 60 MESH	73864	
FLOAT, SHUT-OFF	34351	
DOME ASM, CLP FAM	28061	
PLUG, DRAIN HOSE	66227	
BRUSH SET, 120V 5.7 VAC, AMETEK	14258	*
BRUSH SET, 120V VAC, WINDSOR	140687	*

NOTES: